

TOSHIBA



Color Television

36AX61

Owner's Manual

COLORSTREAM®

Welcome to
Toshiba

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix

Index

SAFETY PRECAUTIONS

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. **DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.**



The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTIONS

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE PRONGS CAN BE FULLY INSERTED INTO THE OUTLET TO PREVENT ANY EXPOSURE OF THE PRONGS ON THE POLARIZED PLUG.

PRECAUCIONES

PARA EVITAR DESCARGAS ELÉCTRICAS, NO UTILICE ESTE ENCHUFE POLARIZADO CON UN RECEPTÁCULO DE CABLE DE EXTENSIÓN U OTRA TOMA SALVO QUE LA CLAVIJA ESTÉ COMPLETAMENTE INSERTADA EN LA TOMA PARA EVITAR CUALQUIER EXPOSICIÓN DE LOS VÁSTAGOS DEL ENCHUFE POLARIZADO.

WARNING

To avoid personal injury:

- Do not stand or climb on the TV.
- Do not put a VCR or any heavy object on top of the TV.

ADVERTENCIA

Para evitar daños personales:

- No se ponga de pie en el TV ni suba a él.
- No coloque el video (p. ej. VCR) ni otro objeto pesado en la parte superior del TV.

Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by a picture-in-picture (PIP) display, computer displays, video games, stock market reports, etc., can become permanently engrained on the picture tube. This damage is not protected by your warranty because it is the result of misuse. If you wish to use your TV to display still images, reduce brightness and contrast settings. Never leave a PIP, computer, or video game display unattended.

Use this TV set with the Toshiba stand listed on page 45 only. Use with other stands may result in instability, causing possible injury or death.

Note to CATV system installers in the USA

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding, and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCCIONES DE SEGURIDAD

CAUTION

PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS CONTAINED IN THIS SECTION AND THOSE ON YOUR TV SET.

RETAIN THIS SECTION FOR REFERENCE.

PRECAUCIÓN

LEA Y TENGA EN CUENTA TODAS LAS ADVERTENCIAS E INSTRUCCIONES QUE SE ENCUENTRAN EN ESTE PANFLETO Y LAS DE LOS APARATOS DE TELEVISIÓN.

MANTENGA ESTE PANFLETO PARA FUTURAS REFERENCIAS.

Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. However, improper use can result in potential electrical shock or fire hazards. In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for antenna/TV installation, use and servicing.

Do not remove the cabinet cover. This may expose you to dangerous voltages. Refer all servicing to qualified service personnel.

La energía eléctrica puede realizar funciones muy útiles. Este televisor ha sido diseñado y fabricado para asegurar su seguridad personal. Sin embargo, la utilización inadecuada del mismo puede resultar en descargas eléctricas o en el riesgo de incendios. Para no anular las protecciones incorporadas en este televisor, tenga en cuenta las reglas básicas de instalación de la antena/televisor, y en caso de problemas póngase en contacto con un centro de reparaciones.

No extraiga de la cubierta de la caja. Esto podría dejarle expuesto a tensiones peligrosas. En caso de avería, consulte los servicios de personal cualificado.

INSTALLATION / INSTALACIÓN

Power Sources — The TV set should be operated only from the type of power source indicated on the TV set or as indicated in the Owner's Manual. If you are not sure of the type of power supply in your home, consult your sales person or your local power company. For TV sets designed to operate from battery power, refer to the operating instructions.

Fuentes de alimentación — Este televisor solamente deberá alimentarse con la fuente de alimentación indicada en la etiqueta de características. Si no está seguro del tipo de fuente de alimentación de su hogar, consulte al proveedor de su televisor o a la compañía eléctrica local. Para productos destinados a alimentarse con pilas, u otras fuentes, consulte las instrucciones de operación.

Grounding or Polarization — The TV set is equipped with one of the following type plugs. If the plug should fail to fit the power outlet, contact your electrician to replace your obsolete outlet. **DO NOT** defeat the safety purpose of the type plug on the TV set.

Puesta a tierra o polarización — Este televisor puede poseer un enchufe de los tipos siguientes. Si el enchufe no entra en la toma de la red, póngase en contacto con un electricista para que le cambie la toma anticuada. **NO** anule el fin de seguridad de sete tipo de enchufe del televisor.

A polarized alternating current line plug — having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug into the outlet, try reversing the plug.

Un enchufe de línea de corriente alterna polarizado — posee una cuchilla más ancha que la otra. Este enchufe entrará en la toma de la red de una sola forma. Si no puede insertar el enchufe en la toma de la red, trate de invertirlo.

Alternate Warnings — A three-wire grounding-type plug — a plug having a third (grounding) pin. This plug will only fit into grounding-type power outlet.

Advertencias alternativas — Enchufe de tipo puesta a tierra de tres conductores — enchufe que posee un tercer terminal (de puesta a tierra). Este enchufe solamente encajará en una toma de la red de tipo puesta a tierra.

Water and Moisture — Do not use the TV set near water — for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

Agua y humedad — No utilice el televisor cerca del agua — por ejemplo, cerca de una bañera, un lavabo, un fregadero, una lavadora, en un sótano húmedo, cerca de una piscina, ni lugares por el estilo.

Ventilation — The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. Never block or cover these slots and openings to ensure reliable operation of the TV set and to protect it from overheating.

Ventilación — Las ranuras y aberturas de la caja y de la parte posterior o de la base son para proporcionar la ventilación necesaria. Para asegurar la operación fiable del televisor para protegerlo contra el recalentamiento. No bloquee ni cubra nunca estas ranuras y aberturas.

- Never cover the slots and openings with a cloth or other materials.
- No cubra nunca las ranuras ni las aberturas con paños ni otros materiales.
- Never block the slots and openings by placing the TV set on a bed, sofa, rug or other similar surface.
- No bloquee nunca las ranuras ni las aberturas colocando el televisor sobre una cama, un sofá, una alfombra, ni demás superficies similares.
- Never place the TV set in a confined space such as a bookcase, built-in cabinet, or any other place of poor ventilation.
- No coloque nunca el televisor en un espacio cubierto, como una librería o un estante empotrados, ni en un lugar de mala ventilación.

Heat — Do not place the TV set near or over a radiator or heat register, or where it is exposed to direct sunlight.

Calor — No coloque el televisor cerca ni sobre un radiador ni un registro de calor, ni expuesto a la luz solar directa.

Power-Cord Protection — Do not allow anything to rest on or roll over the power cord, and do not place the TV set where the power cord is subject to wear or abuse.

Protección del cable de alimentación — No coloque ni pase sobre el cable de alimentación, ni coloque el televisor donde su cable de alimentación pueda sufrir cualquier tipo de daños.

Accessories — Do not place the TV set on an unstable cart, stand, tripod, bracket, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the TV set. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV set, and should use a mounting accessory recommended by the manufacturer.

Accesorios — No coloque el televisor sobre un carrito, una base, un trípode, un soporte ni una mesa inestable. El televisor podría caerse, causando serios daños a niños o adultos, o al propio televisor. Utilice solamente el carrito, la base, el trípode, el soporte, o la mesa que recomiende el fabricante, o que se venda con el televisor, y utilice un accesorio de montaje recomendado por el fabricante.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

La combinación de un producto y un carrito deberá moverse con cuidado. Las paradas repentinas, la fuerza excesiva, y las superficies desiguales pondrían hacer que volcase la combinación del carrito y del producto.



USE / UTILIZACIÓN

Overloading — Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Sobrecarga — No sobrecargue las tomas de la red, los cables prolongadores, ni los adaptadores para múltiples tomas, ya que esto supondría el riesgo de incendios o de descargas eléctricas.

During lightning storms, or when the TV set will be left unattended and unused for a long period of time, unplug the power cord from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV set due to lightning and power-line surges.

Durante tormentas eléctricas, o cuando no vaya a utilizar el televisor durante mucho tiempo, desenchufe el cable de alimentación de la toma de la red y desconecte la antena o el sistema de cablevisión. Esto evitará que se dañe el televisor debido a rayos y a sobretensiones repentinas en la red.

Object and Liquid Entry — Never push objects of any kind into the TV set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV set.

Entrada de objetos y líquidos — No introduzca nunca objetos de ningún tipo en este televisor a través de las aberturas, ya que podrían tocar puntos de tensión peligrosa o cortocircuitar piezas, lo que podría resultar en incendio o descarga eléctrica. No vierta nunca líquidos de ningún tipo sobre este televisor.

Cleaning — Unplug the TV set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the TV set.

Limpieza — Desenchufe el televisor de la toma de la red antes de limpiarlo. No utilice limpiadores líquidos ni aerosoles. Para limpiar el exterior del televisor, utilice un paño ligeramente humedecido en agua.

Attachments — Never add accessories that have not been specifically designed for the TV set. Never remodel the TV set by yourself as this can result in a fire hazard or electric shock.

Aditamentos — No utilice aditamentos no recomendados por el fabricante del televisor, ya que podrían suponer un peligro. No remodele nunca el televisor usted mismo, ya que esto podría causar el riesgo de incendios o descargas eléctricas.

If a snapping or popping sound from a TV set is heard continuously or frequently while the TV set is operated, unplug the TV set and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.

Si se oye un sonido seco de un televisor continuo o frecuente mientras el televisor esté funcionando, desenchúfelo y consulte a su proveedor o a un técnico de servicio. Es normal que algunos televisores produzcan sonidos secos, particularmente cuando conecte o desconecte su alimentación.

SERVICE / SERVICIO DE REPARACIÓN

Damage Requiring Service — Unplug the TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

Daños que requieren el servicio de reparación — En los casos siguientes, desenchufe el televisor de la toma de la red y solicite los servicios de personal de reparación especializado:

- a. When the power cord or plug is damaged or frayed.
a. Cuando se haya dañado el cable de alimentación o el enchufe.
- b. When liquid has been spilled into the TV set.
b. Cuando se haya vertido líquido dentro del televisor.
- c. When the TV set has been exposed to rain or water.
c. Cuando el televisor haya estado expuesto a la lluvia o al agua.
- d. When the TV set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
d. Cuando el televisor haya estado expuesto a golpes excesivos o haya caído, o su caja se haya dañado.
- e. When the TV set does not operate normally even though you follow the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
When the TV set exhibits a distinct change in performance. This indicates a need for service.
e. Cuando el televisor no funcione normalmente incluso al seguir las instrucciones de operación. Ajuste solamente los controles indicados en las instrucciones de operación, ya que un ajuste inadecuado de otros controles podría resultar en daños y a menudo requerirán un trabajo difícil por un técnico cualificado para devolver el televisor a su funcionamiento normal.

Cuando el funcionamiento del televisor haya cambiado notablemente — esto indica la necesidad del servicio de reparación.

Servicing — Do not attempt to service the TV set yourself. To open or remove the covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Reparación — No intente nunca reparar el televisor por sí mismo. La apertura o extracción de cubiertas podría exponerle a tensiones peligrosas u otros peligros. En caso de avería solicite los servicios de personal de reparación cualificado.

Replacement Parts — When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Reemplazo de piezas — Cuando sea necesario reemplazar piezas, cerciórese de que el técnico de reparación utilice las piezas de reemplazo especificadas por el fabricante u otras que posean las mismas características que las originales. Las substituciones no autorizadas podrían resultar en incendios, descargas eléctricas, u otros peligros.

Safety Check — Upon completion of any service or repairs to the TV set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the TV set is in safe operating condition, and to so certify.

Comprobación de seguridad — Al finalizar cualquier reparación de este televisor, solicite al técnico de reparación que realice las comprobaciones de seguridad (especificadas por el fabricante) para determinar y certificar si el producto se encuentra en las condiciones de operación apropiadas.

When the TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

Cuando el televisor llegue al final de su vida útil, si se deshace de él de forma inapropiada, el tubo de imagen puede explotar. Cuando desee deshacerse de un televisor, solicite este servicio a un técnico de reparación especializado.

ANTENNA / ANTENA

Outdoor Antenna Grounding — If an outdoor antenna is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

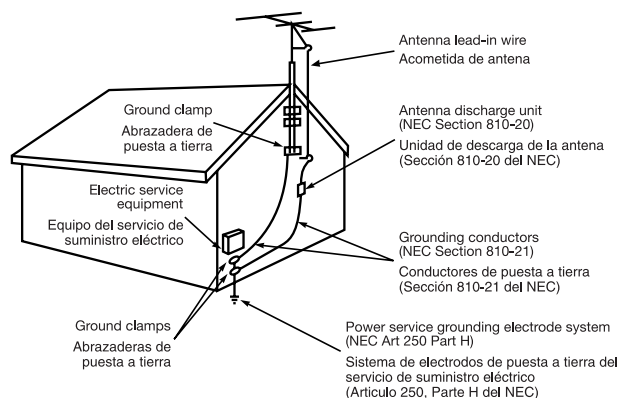
Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code in the USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Puesta a tierra de la antena exterior — Cuando instale una antena exterior, tenga en cuenta las precauciones siguientes.

Un sistema de antena exterior no deberá colocarse cerca de líneas de alta tensión ni otros circuitos de iluminación o alimentación, ni donde pueda entrar en contacto con tales líneas o circuitos.

CUANDO INSTALE UN SISTEMA DE ANTENA EXTERIOR, TENGA EXTREMADO CUIDADO PARA EVITAR QUE ENTRE EN CONTACTO CON TALES LÍNEAS DE ALIMENTACIÓN O CIRCUITOS, YA QUE TAL CONTACTO PODRÍA RESULTAR INVARIABLEMENTE FATAL.

Cerciórese de que el sistema de antena esté puesto a tierra a fin de que proporcione cierta protección contra sobretensiones y cargas estáticas. La Sección 810 del Código Eléctrico Nacional (NEC) de EE.UU. y la Sección 54 del Código Eléctrico Canadiense ofrecen información con respecto a la puesta a tierra adecuada de una unidad de descarga de antena, el tamaño de los conductores de puesta a tierra, la ubicación de la unidad de descarga de la antena, la conexión de los electrodos de puesta a tierra, y los requisitos de tales electrodos.



Welcome to Toshiba	7
Exploring your new TV	7
Selecting a location for the TV	7
Notice of possible TV stand instability	7
Connecting your TV	8
Note regarding picture quality	8
Connecting a VCR.....	8
Connecting a cable converter box.....	9
Connecting a cable converter box and VCR	9
Connecting a DVD player or satellite receiver and a VCR.....	10
Connecting a DVD player with ColorStream™ (component video) and a VCR.....	11
Connecting two VCRs	11
Connecting a camcorder	12
Connecting an audio amplifier	12
Using the remote control	13
Preparing the remote control for use.....	13
Installing the remote control batteries	13
Remote control functional key chart	14
Programming the remote control for use with your audio/video devices	16
Device code setup	16
Searching and sampling the code of a device (991)	16
Verifying the device code (990)	17
Using the Volume Lock feature (993)	17
Operational feature Reset (980).....	17
Device code table	18
Learning about the remote control	22
Setting up your TV	23
Changing the on-screen display language	23
Selecting the antenna input	23
Selecting the signal source	24
Watching video input	24
Adding channels to the TV's memory	24
Programming channels automatically	24
Adding and erasing channels manually	25
Changing channels	25
Using the TV's features	26
Adjusting the channel settings	26
Switching between two channels	26
Programming your favorite channels	26

Using the V-Chip menu	27
Selecting a PIN code	27
Changing your PIN code	28
Blocking programs by ratings	29
Ratings definitions (MPAA, Youth TV, TV)	29
Unblocking programs temporarily	31
Blocking unrated movies and programs	31
Blocking channels	32
Locking video inputs	33
Channel labels	34
Video labels	35
Watching picture-in-picture (PIP)	36
Switching the main and small pictures	36
Changing the location of the PIP window	37
Freezing the PIP display	37
Watching multi-window PIP	37
Adjusting the picture	38
Adjusting the picture quality	38
Selecting the color temperature	38
Adjusting the picture preference	39
Displaying on-screen information	39
Setting the sleep timer	39
Auto power off	39
Using the closed caption feature	40
Adjusting the sound	41
Muting the sound	41
Selecting stereo/SAP broadcasts	41
Adjusting the sound quality	42
Using the surround sound feature	42
Selecting variable audio OUT	43
Turning off the built-in speakers	43
Using the sub-bass system (SBS)	44
Viewing the demonstration (DEMO) mode	44
Understanding the last mode memory feature	44
Appendix	45
Troubleshooting	45
Cleaning and care	46
Specifications	46
Limited United States warranty	47
Attention Canadian customers	47

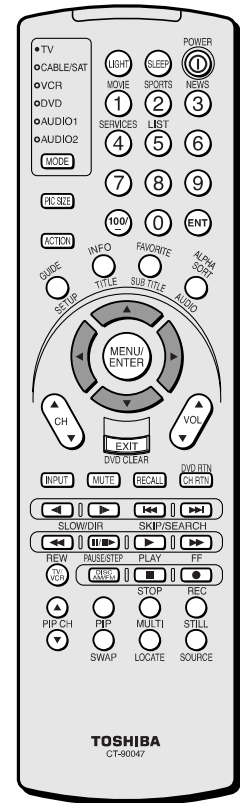
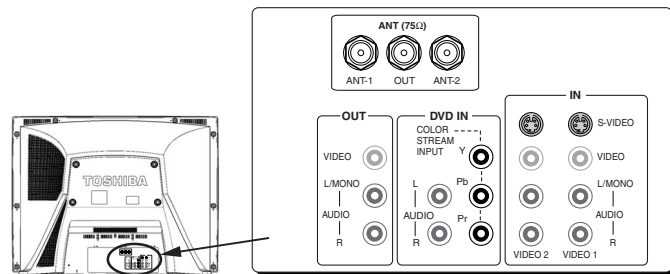
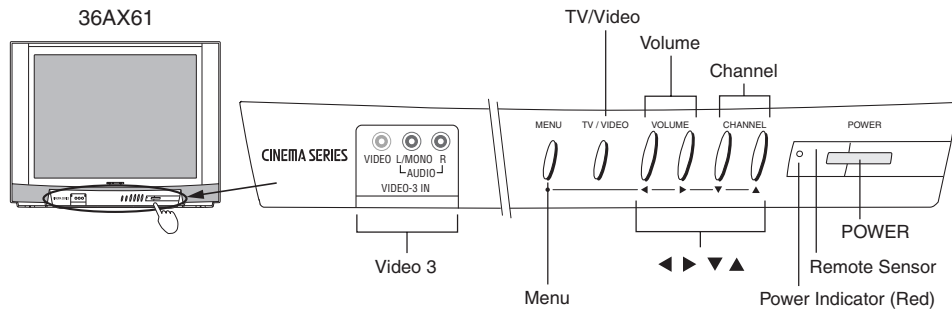
Welcome to Toshiba

Congratulations! You have purchased one of the finest color TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible. Please make sure you have received the following items: TV, remote control, batteries, manual, registration card, and extended service plan literature. If you did not receive all of the items or if any of the items are damaged or broken, please contact your Toshiba dealer. In addition, you may need to purchase other audio or video cables to connect your equipment. See "Connecting your TV" on page 8 for more information.

Please read all safety and operating instructions carefully before you begin.

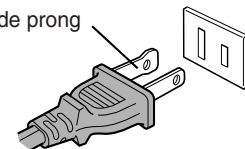
Exploring your new TV

You can operate your TV using the buttons on the front panel or the remote control. The back panel provides all the terminal connections you will need to connect other equipment to your TV.



Caution:

The plug has one prong wider than the other and will fit only one way into a standard electrical outlet (120 volt AC, 60 Hz). If the plug does not fit into the outlet, try turning it around. If the plug still does not fit, the outlet is probably non-standard and must be replaced by a qualified electrician. **Do not tamper with the plug or try to force it into a non-standard outlet.**



Selecting a location for the TV

- Place the TV on the floor or on the recommended TV stand (see "Notice of Possible TV Stand Instability" at right).
- Place the in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number: 36AX61

Serial number: _____

NOTICE OF POSSIBLE TV STAND INSTABILITY

WARNING: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

Use your TV with the Toshiba TV stand recommended below **only!**

Use with other stands may result in instability, causing possible injury or death.

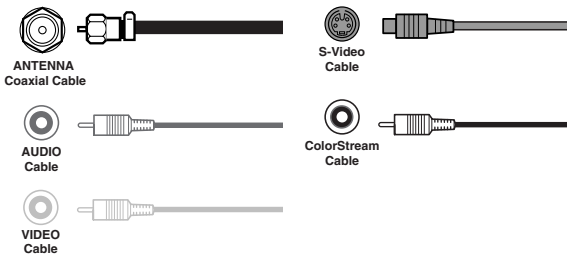
TV Model	TV Stand
36AX61	ST3641

Connecting your TV

If you have not connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section.

Note: Cables are not supplied.

- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use “F” connectors.
- Audio and video cables are usually color coded according to use: yellow for video; red and white for audio. The red audio cable is for the stereo right channel; the white audio cable is for the stereo (or mono) left channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance than standard video cables. S-video cables can be used only with S-video compatible components.
- ColorStream™ (component video) cables come in sets of three. A ColorStream (component video) connection will provide the best picture performance.

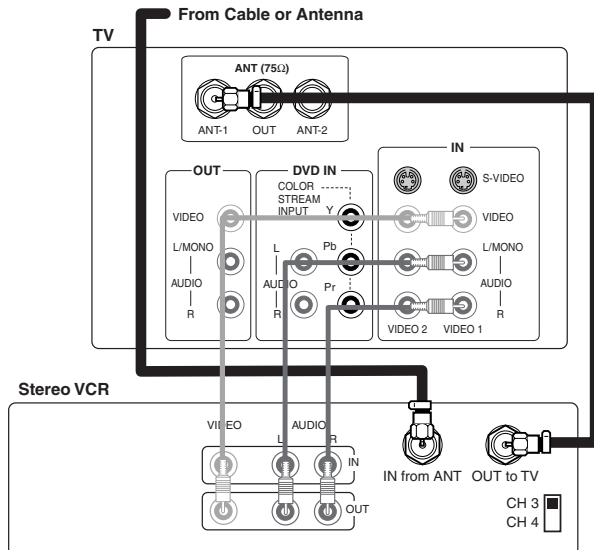


Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.

You will need:

- one coaxial cable
- one pair of audio cables (one single audio cable for a mono VCR)
- one video cable



NOTE REGARDING PICTURE QUALITY

When connecting video equipment, such as a VCR or DVD player:

- For **GOOD** picture quality: Use regular video cables.
- For **BETTER** picture quality: If your equipment has S-video connections, use S-video cables instead of regular video cables.
- For **BEST** picture quality: If your equipment has component video connections, (ColorStream is Toshiba's brand), use component video cables instead of regular or S-video cables. Component video cables come in sets of three.

Note: Do not connect a regular video cable and an S-Video cable to VIDEO-1 (or VIDEO-2) at the same time. Doing so will distort the picture.

Caution:

Do not plug in the TV power cord until you have finished connecting all of your equipment.

Caution:

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have an S-VHS VCR, use the S-video connections and omit the video cable.

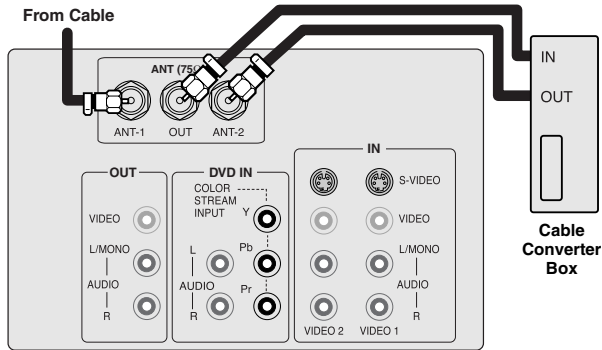
Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.

Connecting a cable converter box

This connection allows you to watch basic and premium cable channels. To use the TV features (such as PIP swap, Channel ▲▼, channel block, favorite channels, or channel labels), select ANT-1. To view premium channels, select ANT-2, tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box to change channels.

You will need:

- two coaxial cables



Note:

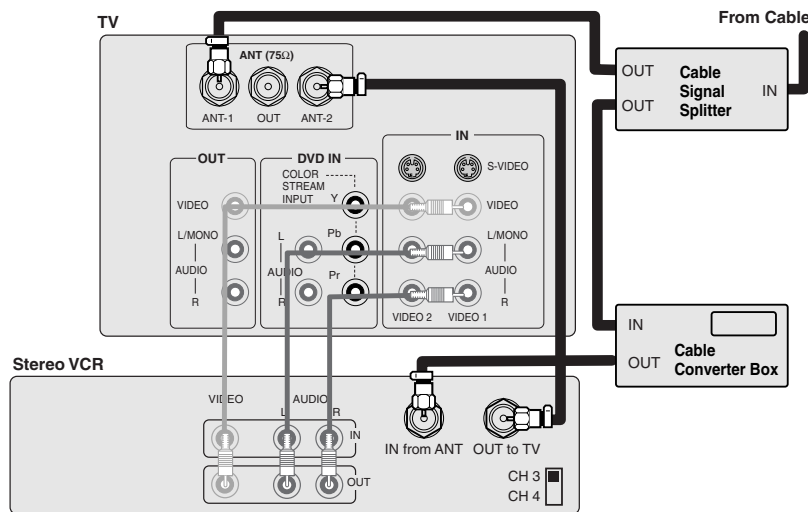
When you use a converter box with your TV, the remote control may not operate certain features, such as PIP swap, channel ▲▼, channel block, favorite channels, or channel labels.

Connecting a cable converter box and VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. Set the TV signal source to Video1 (see "Watching video input" on page 24). Tune the VCR to channel 3 or 4 (the same channel as the converter box output switch). Use the cable converter box to change channels. Set the PIP source to TV mode (see page 36).

You will need:

- three coaxial cables
- one pair of audio cables (one single audio cable for a mono VCR)
- one video cable
- one cable splitter



Note:

When you use a converter box with your TV, the remote control may not operate certain features, such as PIP swap, channel ▲▼, channel block, favorite channels, or channel labels.

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have an S-VHS VCR, use an S-video cable instead of a regular video cable.

Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.

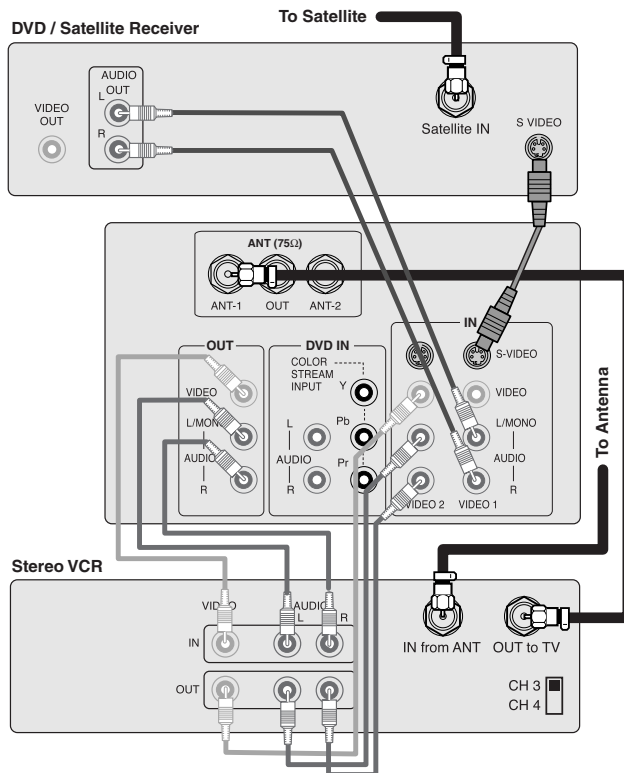
Connecting a DVD player or satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, or TV programs. You can record from the DVD player/satellite receiver and TV, as well as record one TV channel while watching another channel.

Note: If your DVD player has component video connections, follow the connection instructions under “Connecting a DVD player with ColorStream™ (component video) and a VCR” on page 11.

You will need:

- one coaxial cable
- three pairs of audio cables (one pair and two single audio cables for a mono VCR)
- two regular video cables
- one S-video cable



Note:

You can use a regular video cable instead of an S-video cable between the TV and DVD player/satellite receiver, but the picture quality will decrease.

The illustration at left shows one S-video cable and one pair of audio cables connected to Video-1 on the TV. Make sure you do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time. Doing so will distort the picture.

Connecting a DVD player with ColorStream™ (component video) and a VCR

This connection allows you to watch DVD, VCR, or TV programs, and record DVD or TV programs (when authorized). You can record from one source while watching a program from another source.

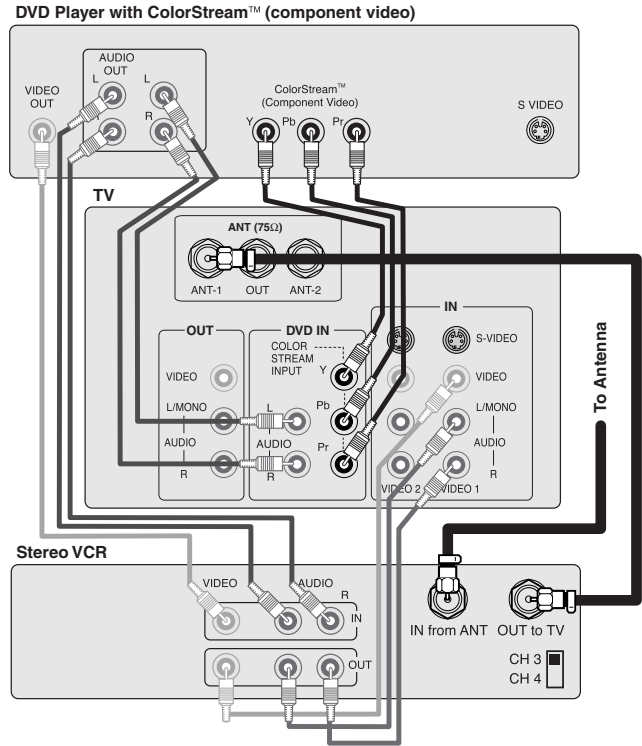
Your TV has ColorStream (component video) connections. Connecting your TV to a component video compatible DVD player (such as a Toshiba DVD player with ColorStream™) can greatly enhance picture quality and performance.

You will need:

- one coaxial cable
- three pairs of audio cables (one pair and two single audio cables for a mono VCR)
- two regular video cables
- one set of ColorStream (component) video cables

Note:

For the best picture performance, use ColorStream/ component video cables between the TV and DVD player. To record from the DVD player, the DVD player and TV must select VIDEO 1.



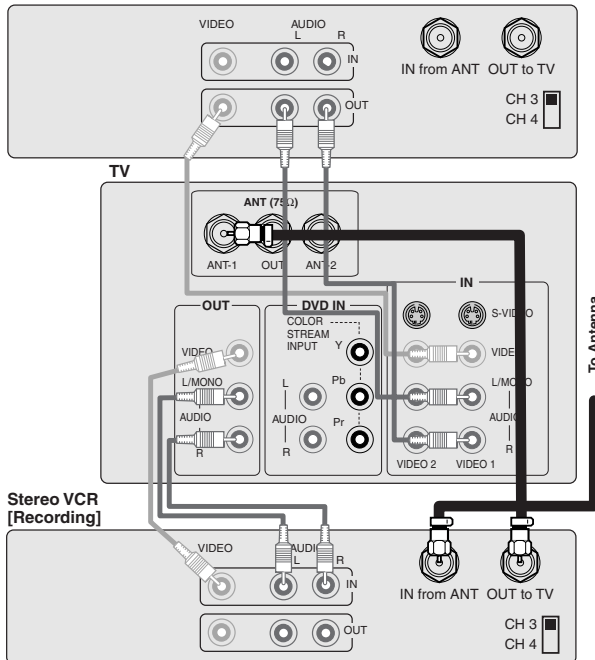
Connecting two VCRs

This connection allows you to record from one VCR to another VCR while watching a video program. You also will be able to record from one TV channel while watching another channel.

You will need:

- one coaxial cable
- two pairs of audio cables (two single audio cables for mono VCRs)
- two video cables

Stereo VCR [Playback]



Caution:

The unauthorized recording of television programs, videotapes, DVDs, and other materials may infringe upon the provisions of copyright laws.

Note:

If you have S-VHS VCRs, use S-video cables instead of regular video cables.

Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.

Do not connect the same VCR to the output and input jacks on the TV at the same time.

Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder.

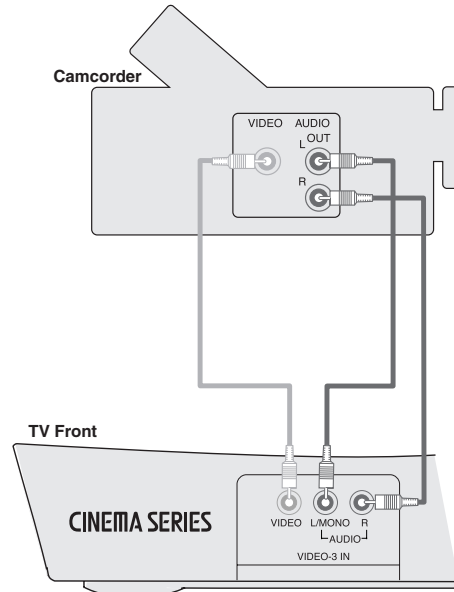
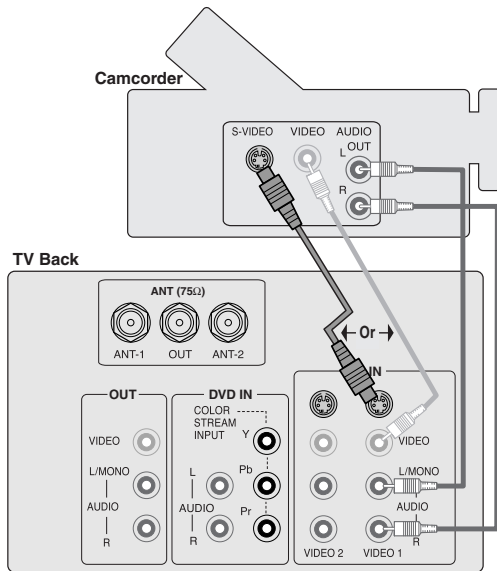
You will need:

- one pair of audio cables
- one video cable

Note:

If your camcorder has an S-video connection, an S-video cable will provide better picture performance than a regular video cable.

Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.



Connecting an audio amplifier

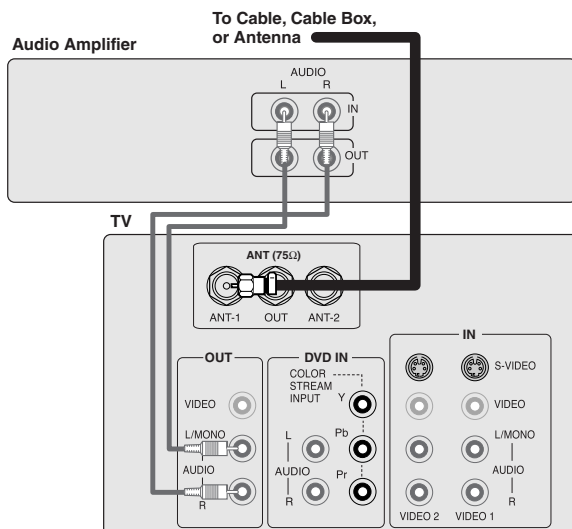
This connection allows you to use an audio amplifier to adjust the audio level. This connection also allows you to use external speakers. To control the audio, turn on the TV and the stereo amplifier.

You will need:

- one pair of audio cables

Note:

The volume of both the TV and the amplifier must be set above 0, or you will not hear any sound.



Using the remote control

Preparing the remote control for use

Your Toshiba remote control has one dedicated TV mode and five universal modes: VCR, Cable/SAT, DVD, Audio1, and Audio2. The target and default devices being programmed for each mode are as follows:

Target device/Mode mapping

Mode	Device
TV	Toshiba TV
CABLE/SAT	Universal Cable, Satellite
VCR	Universal VCR, DVD, LD, Cassette
DVD	Universal DVD, VCR, LD, Cassette
AUDIO1	Universal Audio: Amp., Tuner, Misc.Audio, CD/MD
AUDIO2	Universal Audio: CD/MD, Amp., Tuner, Misc.Audio

Default device codes

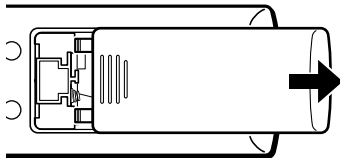
Mode	Default device
TV	Toshiba TV
CABLE/SAT	Toshiba Satellite receiver
VCR	Toshiba VCR
DVD	Toshiba DVD
AUDIO1	Pioneer Audio receiver
AUDIO2	Pioneer LD

Repeatedly press **MODE** to cycle among the modes. If you own different brands of audio/video devices, you first have to program your remote control (see “Programming the remote control for use with audio/video devices” on page 16).

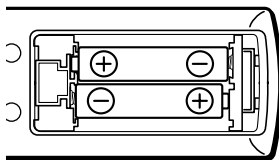
Installing the remote control batteries

To install the batteries:

- Slide the battery cover off the back of the remote control.



- Install two “AA” size alkaline batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



- Slide the battery cover back on the remote control until the lock snaps.

Note:

Your TV's remote control may or may not operate your audio/video devices.

Refer to the owner's manuals supplied with the devices to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.

Caution:

- Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.
- Do not mix battery types or combine used batteries with new ones.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- Battery life expectancy is about one year with normal use. If you do not intend to use the remote control for a long time, remove the batteries.

Remote Control functional key chart

Key Label	Toshiba TV (TV)	Cable (CBL/SAT)	Satellite (CBL/SAT)	VCR	DVD/LD	Receiver (AUDIO)	CD/MD (AUDIO)	Cassette (VCR)
LIGHT	Illuminates the remote							
SLEEP	Sleep timer	---	---	---	---	---	---	---
POWER	Power	Power	Power	Power	Power	Power	Power	Power
1/MOVIE	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	AV input 1	Digit 1	Digit 1
2/SPORTS	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	AV input 2	Digit 2	Digit 2
3/NEWS	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	AV input 3	Digit 3	Digit 3
4/SERVICES	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	AV input 4	Digit 4	Digit 4
5/LIST	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	CD	Digit 5	Digit 5
6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Tuner	Digit 6	Digit 6
MODE	Device mode selection for the remote control							
PIC SIZE	This button is not available for this TV model or any other device connected to this TV.							
7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Phono	Digit 7	Digit 7
8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Cassette	Digit 8	Digit 8
9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Aux	Digit 9	Digit 9
ACTION	---	Menu	Action, Menu	Menu	Menu	---	---	---
100/-	100	100	100	100	100	100	100	100
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
ENT	---	CH Enter	CH Enter	CH Enter	---	---	---	---
GUIDE/SETUP	---	Guide	Guide	Program	DVD setup	Program	Program	---
INFO/TITLE	TV preview	← TV	INFO	← TV	TITLE= Top menu	← TV	← TV	← TV
FAVORITE/ SUBTITLE	Favorite CH	---	Favorite CH	---	Subtitle	---	---	---
ALPHASORT/ AUDIO	---	---	Alphasort	---	Audio	---	---	---
MENU/ ENTER	Menu open/ Enter	Select	Select	Enter	Enter	---	---	---
▲▼	Menu select	Menu select	Menu select	Menu select	Menu select	---	---	---
◀▶/FAV ▶▶	Menu select/ FAV ▶▶	Menu select	Menu select	Menu select	Menu select	---	---	---
VOL ▲▼	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	---
EXIT/ DVD CLEAR	Exit	Exit	Exit	Exit	DVD clear	Exit/Clear	Exit/Clear	Exit/Clear
CH ▲▼	Channel up/down	Channel up/down	Channel up/down	Channel up/down	---	Channel up/down	---	---
INPUT	TV/Video select	← TV	← TV	VCR input	← TV	Input	← TV	← TV
MUTE	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	---
RECALL	On-screen display	On-screen display	On-screen display	On-screen display	On-screen display	---	---	---
CH RTN/ DVD RTN	Previous channel	Previous channel	Previous channel	Previous channel	DVD return	---	---	---
SLOW/ DIR ▶ ◀	---	---	---	Forward ---	Forward Reverse	---	---	---
SKIP/ SEARCH ▶ ◀	---	---	---	---	Forward Reverse	CH forward CH reverse	Forward Reverse	Forward Reverse
REW	VCR →	VCR →	VCR →	Rewind	Rewind	Rewind	Rewind	Rewind
PAUSE/STEP	VCR →	VCR →	VCR →	Pause	Pause	Pause	Pause	Pause
PLAY	VCR →	VCR →	VCR →	Play	Play	Play	Play	Play
FF	VCR →	VCR →	VCR →	F. Forward	F. Forward	F. Forward	F. Forward	F. Forward
TV/VCR	VCR →	Bypass A/B	TV/SAT	TV/VCR	---	---	---	---

DISC AM/FM	---	---	---	---	Disc shift	AM/FM	Disc shift	Deck side A/B switch
STOP	VCR →	VCR →	VCR →	Stop	Stop	Stop	Stop	Stop
REC	VCR →	VCR →	VCR →	Record	---	Record	Record	Record
PIP CH ▲▼	PIP channel up/down	← TV	← TV	← TV	← TV	← TV	← TV	← TV
PIP	PIP on/off	← TV	← TV	← TV	← TV	← TV	← TV	← TV
MULTI	Strobe	← TV	← TV	← TV	← TV	← TV	← TV	← TV
STILL	PIP Still	← TV	← TV	← TV	← TV	← TV	← TV	← TV
SWAP	PIP Swap	← TV	← TV	← TV	← TV	← TV	← TV	← TV
LOCATE	PIP Locate	← TV	← TV	← TV	← TV	← TV	← TV	← TV
SOURCE	PIP Source	← TV	← TV	← TV	← TV	← TV	← TV	← TV

Notes:

- “---” will send nothing.
- “← TV” will jump to TV.
- “VCR →” will jump to last active VCR or DVD. Active VCR/DVD is defined as the mode that remains for a minimum of 5 seconds, or if a key is pressed in that mode.
- * The VOLUME and MUTE will jump to “TV” by default. When the volume is unlocked, all the devices will have their own volume. The AUDIO1/2 (Receiver, CD) modes will have their own volume even if Volume Lock is on TV, CABLE/SAT, VCR, or DVD. See “Using the Volume Lock feature” on page 17.

Programming the remote control for use with your audio/video devices

Device code setup

1. Refer to the Device code table on pages 18–21 to find the code for your device.

If more than one code is listed, try each one separately until you find the one that works.

2. Press **MODE** until the mode indicator of the device (CABLE/SAT, VCR, DVD, AUDIO1, AUDIO2) lights up.

3. While holding down **RECALL**, press the **CHANNEL NUMBERS** to enter the four-digit code for your device. Release the buttons.

If a valid code is entered, the mode indicator will blink twice.

If an invalid code is entered, there will be one long blink.

4. Point the remote control at the device and press **POWER** to test the code.

If the device turns on, you have entered the right code.

If the device does not respond to the remote control, you may have entered an invalid code. Repeat steps 3 and 4 using another code.

5. To control the TV, press **MODE** until TV mode lights up.

Searching and sampling the code of a device (991)

If you do not know the device code for a particular device, you can cycle the remote control through the available codes for that device and sample functions to find the code that operates the device. The keys available to be sampled, provided they are applicable to that mode, are 0, 1, 2, 3, POWER, VOL ▲, CH ▲, PLAY, and STOP. Invalid keys will be ignored while in program mode.

To cycle through each available device code and sample its functions:

1. Press **MODE** to select the mode you want to set up.
2. While holding down **RECALL**, press 9, 9, 1 in sequence. The remote control will enter program mode.
3. Point the remote control at the device, and then press **POWER** (or other function buttons that are available to be sampled).

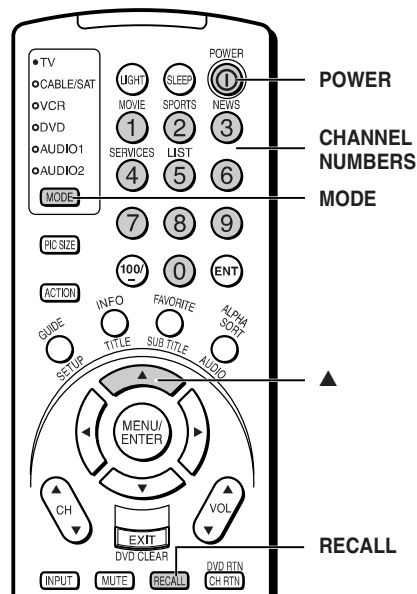
4. If the device responds to the remote control:
Press **RECALL** to store the device code.
The mode indicator will blink two times, and the remote control will exit the program mode.

If the device does not respond to the remote control:

Press ▲, and then press **POWER**.

Repeat this step until the device responds to the remote control, and then press **RECALL**.

Note: When a search cycle is done, the mode indicator will blink three times. The remote control will begin to cycle through the available codes again. If no key is pressed within 10 seconds while programming, the remote control will exit the program mode and return to the previous code.



Note:

- Every time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2."

If your VCR has this kind of switch and does not respond to any of the codes for your VCR brand, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

Verifying the device code (990)

Use this feature to verify the codes for your other devices. The number of blinks after pressing the 1, 2, 3, and 4 buttons is the 4-digit code set up for that mode.

For example, to verify the VCR device code:

1. Press **MODE** to select the VCR mode.
2. While holding down **RECALL**, press 9, 9, 0 in sequence.
3. Press 1 → 0 blinks.
4. Press 2 → 3 blinks.
5. Press 3 → 8 blinks.
6. Press 4 → 5 blinks.

This verifies that the device code of the VCR is “0385.”

Using the Volume Lock feature (993)

For the TV, CABLE/SAT, VCR, and DVD modes, the volume controls (**VOL ▲▼** and **MUTE**) can be programmed (locked) to the selected device mode. This feature does not apply to the AUDIO1/2 modes.

For example, to lock the volume controls to the CABLE/SAT mode:

1. Press **MODE** to select the CABLE/SAT mode.
2. While holding down **RECALL**, press 9, 9, 3 in sequence.
3. Press **VOL ▲**. The Mode indicator will blink two times (locked).

The following table describes the Volume Lock implementation.

Volume Locked to:	TV	CBL/SAT	VCR	DVD	AUD1	AUD2
TV (default)	TV	TV	TV	TV	AUD1	AUD2
CBL/SAT	CBL/SAT	CBL/SAT	CBL/SAT	CBL/SAT	AUD1	AUD2
VCR	VCR	VCR	VCR	VCR	AUD1	AUD2
DVD	DVD	DVD	DVD	DVD	AUD1	AUD2
AUD1	AUD1	AUD1	AUD1	AUD1	AUD1	AUD1
AUD2	AUD2	AUD2	AUD2	AUD2	AUD2	AUD2

To reset the volume controls to the original device code:

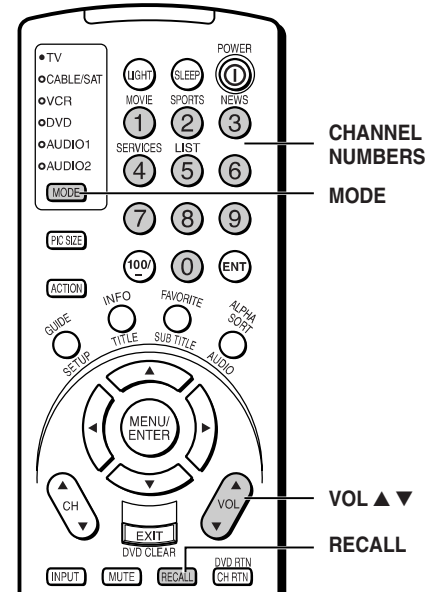
1. While holding down **RECALL**, press 9, 9, 3 in sequence.
2. Press **VOL ▼**. The mode indicator will blink four times (unlocked).

Operational feature Reset (980)

This feature clears all setup features not related to “Device code set up” and resets the Volume Lock to “TV.”

To reset the features:

- While holding down **RECALL**, press 9, 8, 0 in sequence.
The mode indicator will blink two times, and then pause and blink two more times.



Device code table

Cable box setup codes

Brand name	Code number
ABC	0020, 0022, 0026, 0027, 0030, 0032, 0033, 0036
Allegro	0172, 0334
Americast	0918
Antronix	0041, 0226
Archer	0041, 0172, 0226, 0816
BBT	0286
Belcor	0075
Bell & Howell	0033
Bell South	0918
Cable Star	0075
Cabletenna	0041
Cableview	0041
Century	0172
Citizen	0172, 0334
Colour Voice	0044, 0050
Comtronics	0059
Contec	0038
Digi	0656
Eastern	0021
Emerson	0816
Everquest	0034, 0059
Focus	0419
GC Electronics	0075, 0226
Garrard	0172
Gemini	0034, 0089, 0816
General Instrument	0030, 0295, 0495, 0829
GoldStar	0059, 0163
Goodmind	0816
Hamlin	0028, 0039, 0053, 0278, 0292
Hitachi	0030
Hytex	0026
Jasco	0034, 0172, 0334
Jerrold	0022, 0030, 0031, 0033, 0034, 0043, 0295, 0495, 0829
Linsay	0459
Magnavox	0046
Memorex	0019
Movie Time	0082, 0175
NSC	0082, 0089, 0175
Novaplex	0637
Oak	0026, 0038
Optimus	0040
Panasonic	0019, 0040, 0126
Panther	0656
Paragon	0019
Philips	0044, 0046, 0050, 0172
Pioneer	0042, 0163, 0552, 0896
Popular Mechanics	0419
Prelude	0789
Pulsar	0019
Quasar	0019
RCA	0040
Radio Shack	0034, 0334, 0816, 0902
Realistic	0226
Recoton	0419
Regal	0039, 0278, 0292
Regency	0021
Rembrandt	0030, 0089
Runco	0019

Satellite Receiver setup codes

Brand name	Code number
AlphaStar	0791
Chaparral	0072, 0235
Curtis Mathes	0080
Echostar	0288, 0299, 0794, 1024
Expressvu	0794
General Instrument	0380, 0646, 0888
HTS	0794
Hitachi	0838
Homecable	0257
Hughes Network Systems	0768
IQ	0229
IQ Prism	0229
JVC	0794
Jerrold	0380, 0646
Legend	0288
Macom	0080
Magnavox	0741, 0743
Memorex	0288, 0743
Next Level	0888
Panasonic	0720
Philips	0741, 0743
Primestar	0380, 0646
RCA	0162, 0411, 0585, 0874
Radio Shack	0888
Realistic	0071
STS	0229
Sony	0658
Star Choice	0888
Toshiba	0080, 0101, 0768, 0809, 1071, 1072, 1073
Uniden	0071, 0093, 0257, 0741, 0743
Zenith	0080, 0875

SL Marx	0059
Samsung	0059, 0163
Scientific Atlanta	0027, 0036, 0496, 0896
Seam	0529
Signal	0034, 0059
Signature	0030
Sprucer	0040
StarSight	0441, 0561
Starcom	0022, 0034
Stargate	0034, 0059, 0789, 0816
Starquest	0034
Sylvania	0020
TFC	0329
TV86	0082
Tandy	0277
TeleCaption	0240
Televue	0059
Texscan	0020
Timeless	0437
Tocom	0031, 0032
Toshiba	0019
Tusa	0034
Unika	0041, 0172, 0226
United Artists	0026
Universal	0041, 0075, 0172, 0210, 0226
Viewstar	0046, 0082, 0277
Zenith	0019, 0073, 0544, 0918
Zentek	0419

Device code table

VCR setup codes

Brand name	Code number				
Admiral	0067, 0228	Kenwood	0057, 0060, 0086,	Radix	0056
Adventura	0019		0403	Randex	0056
Aiko	0297	Kodak	0054, 0056	Realistic	0019, 0054, 0056,
Aiwa	0019, 0056, 0326	LXI	0056		0065, 0066, 0067,
Akai	0060, 0072, 0080,	Lloyd's	0019, 0227		0081, 0085, 0123
	0125	Logik	0091	ReplayTV	0633, 0635
America Action	0297	MEI	0054	Ricoh	0053, 0272
American High	0054	MGA	0062, 0080, 0259	Runco	0058
Asha	0259	MGN Technology	0259	STS	0061
Audiovox	0056	MTC	0019, 0259	Samsung	0064, 0070, 0072,
Beaumarck	0259	Magnasonic	0297		0259
Bell & Howell	0123	Magnavox	0019, 0054, 0058,	Sanky	0058, 0067
Broksonic	0021, 0140, 0203,		0100, 0129, 0168	Sansui	0019, 0060, 0086,
	0228, 0314, 0380,	Magnin	0259		0228, 0290, 0498
	0498	Marantz	0054, 0100	Sanyo	0065, 0066, 0123,
CCE	0091, 0297	Marta	0056		0259
Calix	0056	Matsushita	0054, 0181, 0473	Scott	0062, 0064, 0140,
Canon	0054	Memorex	0019, 0054, 0056,		0203, 0229, 0231
Capehart	0039		0058, 0065, 0066,	Sears	0019, 0054, 0056,
Carver	0100		0067, 0123, 0181,		0061, 0065, 0066,
Cineral	0297		0228, 0259, 0326,		0073, 0076, 0085,
Citizen	0056, 0297		0473, 1056, 1181,		0123, 0124
Colt	0091		1281	Semp	0064
Craig	0056, 0066, 0091,	Minolta	0061, 0124	Sharp	0067, 0081
	0259, 0290	Mitsubishi	0062, 0067, 0080,	Shintom	0091
Curtis Mathes	0054, 0060, 0079,		0086	Shogun	0070, 0259
	0181	Motorola	0054, 0067	Singer	0091
Cybernex	0070, 0259	Multitech	0019, 0091	Sony	0019, 0051, 0052,
Daewoo	0039, 0064, 0297,	NAD	0077		0053, 0054, 0272,
	0580	NEC	0057, 0059, 0060,		1051
Daytron	0039		0086, 0123	Sunpak	0272
Denon	0061	Nikko	0056	Sylvania	0019, 0054, 0062,
Dynatech	0019	Nikon	0053, 0272		0100, 0129
Electrohome	0056	Noblex	0259	Symphonic	0019
Electroponic	0056	Olympus	0054	TMK	0055, 0227, 0259
Emerex	0051	Optimus	0056, 0067, 0077,	Tatung	0060
Emerson	0019, 0021, 0055,		0123, 0181, 0451,	Teac	0019, 0060
	0056, 0062, 0080,		0473, 1067, 1081,	Technics	0054, 0181
	0087, 0107, 0140,		1181, 1281	Teknika	0019, 0054, 0056
	0203, 0227, 0228,	Optonica	0081	Thomas	0019
	0231, 0297, 0313,	Orion	0021, 0203, 0228,	Tivo	0637
	0314, 0380, 0498,		0314, 0498	Toshiba	0062, 0064, 0076,
	0580	Panasonic	0054, 0096, 0181,		0085, 0229, 0231,
Fisher	0066, 0073, 0085,		0244, 0473, 0635,		0385
	0123		1081, 1181, 1281	Totevision	0056, 0259
Fuji	0052, 0054	Penney	0054, 0056, 0057,	Unitech	0259
Funai	0019		0059, 0061, 0073,	Vector	0064
GE	0054, 0067, 0079,		0259	Vector Research	0057, 0059
	0221, 0259	Pentax	0061, 0124	Video Concepts	0059, 0064, 0080
Garrard	0019	Philco	0054, 0228, 0498	Videosonic	0259
Go Video	0451, 0545, 0662	Philips	0054, 0081, 0100,	Wards	0019, 0054, 0061,
GoldStar	0056, 0057		0129, 0637, 1100,		0066, 0067, 0079,
Gradiente	0019, 0027		1200		0081, 0091, 0100,
HI-Q	0066	Pilot	0056		0168, 0231, 0259
Harley Davidson	0019	Pioneer	0077, 0086	White Westinghouse	0228, 0297
Harman/Kardon	0057, 0100	Portland	0039	XR-1000	0019, 0054, 0091
Harwood	0087, 0091	Profitronic	0259	Yamaha	0057
Headquarter	0065	Proscan	0079, 0221	Zenith	0019, 0052, 0053,
Hitachi	0019, 0060, 0061,	Protec	0091		0058, 0228, 0498,
	0124	Pulsar	0058, 0070		0656
Hughes Network		Quarter	0065		
Systems	0061	Quartz	0065		
JVC	0027, 0060, 0086,	Quasar	0054, 0096, 0181,		
	0403		0473, 1181		
Jensen	0060	RCA	0054, 0061, 0067,		
KEC	0056, 0297		0079, 0096, 0124,		
KLH	0091		0125, 0168, 0221,		
			0259		
		Radio Shack	0019, 1056		

Welcome to
Toshiba

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix

Index

Device code table

DVD setup codes

Brand name	Code number
Aiwa	0660
Denon	0509, 0653
GE	0541
Harman/Kardon	0601
JVC	0577, 0642
Kenwood	0553
Magnavox	0522
Marantz	0558
Mitsubishi	0540
Onkyo	0522, 0646
Optimus	0590
Panasonic	0509, 0651
Philips	0522, 0558
Pioneer	0544, 0590, 0651
Proscan	0541
RCA	0541
Samsung	0592
Sharp	0649
Sherwood	0652
Sony	0552
Technics	0509
Theta Digital	0590
Toshiba	0522
Yamaha	0509, 0564
Zenith	0522, 0610

Laser Disc setup codes

Brand name	Code number
Aiwa	0222
Carver	0083, 0213, 0342
Denon	0078, 0191
Disco Vision	0042
Funai	0222
Harman/Kardon	0213
Hitachi	0042
Magnavox	0213, 0236
Marantz	0083, 0213
Mitsubishi	0078
NAD	0078
Optimus	0078
Panasonic	0223
Philips	0083, 0213
Pioneer	0042, 0078
Quasar	0223
Realistic	0222
Samsung	0342
Sega	0042
Sony	0212, 0220
Technics	0223
Theta Digital	0213
Yamaha	0236

CD Player setup codes

Brand name	Code number
ADC	0037
Adcom	0174, 0253
Aiwa	0143, 0176
Akai	0175
Audio Alchemy	0213
Audio-Technica	0189
BSR	0213, 0264
Burmester	0439
California Audio Labs	0048, 0322
Carrera	0213
Carver	0176, 0198, 0318, 0456
DAK	0264
DKK	0019
Denon	0022, 0892
Emerson	0174, 0183, 0324, 0488
Fisher	0107, 0193, 0198, 0361
GE	0028
Garrard	0264, 0299, 0412, 0439
Genexxa	0051, 0183, 0324
Harman/Kardon	0176, 0192, 0445
Hitachi	0051, 0174
JVC	0091
Kenwood	0047, 0056, 0209, 0645, 0700, 0845
Kodak	0306
Krell	0176
Kyocera	0037
LXI	0324
Linn	0176
Luxman	0112
MCS	0048
MTC	0439
Magnavox	0176, 0324
Marantz	0048, 0176, 0199
McIntosh	0306
Mission	0176
NAD	0038, 0318
NEC	0253
NSM	0176
Nikko	0183, 0189, 0193
Onkyo	0120, 0887
Optimus	0019, 0051, 0056, 0106, 0164, 0198, 0213, 0215, 0299, 0324, 0361, 0439, 0445, 0456, 0487, 1082
Panasonic	0048, 0322, 0386, 0771
Parasound	0213, 0439
Philips	0176, 0306, 0645
Pioneer	0051, 0263, 0324, 0487, 1082
Proton	0176
QED	0176
Quasar	0048
RCA	0028, 0072, 0174, 0198, 0324, 0783
Realistic	0174, 0183, 0198, 0199, 0439
Rotel	0176, 0439
SAE	0176
STS	0037
Sansui	0176, 0221, 0324
Sanyo	0106, 0198
Scott	0174, 0183, 0324
Sears	0324
Sharp	0056, 0199, 0880
Sherwood	0199, 0215, 0445, 1086
Sony	0019, 0204, 0509, 0623, 0624
Soundesign	0164
Tascam	0439
Teac	0193, 0199, 0412, 0439
Technics	0048, 0322
Toshiba	0038, 0318
Vector Research	0213
Victor	0091
Wards	0072, 0176
Yamaha	0055, 0189, 0206
Yorx	0480

Device code table

Amplifier setup codes

Brand name	Code number
Aiwa	0425
Carver	0288
Curtis Mathes	0319
Denon	0179
GE	0097
Harman/Kardon	0911
JVC	0350
Linn	0288
Magnavox	0288
Marantz	0288
Optimus	0319, 0414
Panasonic	0327
Philips	0288, 0911
Pioneer	0032, 0319
Realistic	0414
Sony	0239, 0708
Soundesign	0097
Technics	0327
Toshiba	0372
Victor	0350
Wards	0032, 0097
Yamaha	0373

Cassette Player setup codes

Brand name	Code number
Aiwa	0048, 0216, 0219
Akai	0302
Carver	0048
Denon	0095
Fisher	0093
Garrard	0327, 0458
Harman/Kardon	0048, 0201
JVC	0263, 0292
Kenwood	0089
Magnavox	0048
Marantz	0028, 0048
Mitsubishi	0302
Onkyo	0154, 0155, 0301
Optimus	0046, 0239, 0356, 0458
Panasonic	0248
Philips	0048
Pioneer	0046, 0118, 0239
Revox	0209
Sansui	0028, 0048
Sherwood	0356
Sony	0189, 0262, 0310
Teac	0327
Technics	0248
Toshiba	0360, 0361
Victor	0292
Wards	0046
Yamaha	0113, 0116

Misc. Audio setup codes

Brand name	Code number
Aiwa	0029, 0178, 0423
Fisher	0071
Harman/Kardon	0496
JBL	0496
JVC	0092
Jerrold	0478, 0539
Nikko	0395
Paramount Pictures	0336
RCA	0075
SSI	0336
Schneider	0395
Scientific Atlanta	0479
Sony	0029, 0178, 0595
Soundesign	0395
Starcom	0478
Yorx	0395

Receiver setup codes

Brand name	Code number
ADC	0550
Adcom	0635
Aiwa	0140, 0177, 0208, 0424, 1108, 1424
Akai	0095, 0243
Capetronic	0550
Carver	0027, 0061, 0208, 0379, 1108, 1208
Casio	0214
Clarinette	0214
Curtis Mathes	0099
Denon	0023, 0292, 0790, 1123, 1179
Emerson	0443
Fisher	0061, 0238, 0379
Garrard	0443, 0482
Harman/Kardon	0129, 0208, 0910
Inkel	0081
JBL	0129
JVC	0093
Kenwood	0046, 0061, 0096, 0205, 0332, 0333, 1046, 1071, 1332, 1588
Koss	0443
LXI	0200
Linn	0208
Lloyd's	0214
MCS	0058, 0365
Magnavox	0147, 0208, 0214, 0410, 0550, 1108, 1208
Marantz	0058, 0147, 0208, 1108, 1208
Modulaire	0214
NAD	0339
NEC	0254
Nakamichi	0116, 0366
Onkyo	0119, 0154, 0399
Optimus	0061, 0099, 0196, 0200, 0205, 0238, 0550, 0689, 0757, 0820, 1042
Panasonic	0058, 0328, 0537, 1537
Penney	0214
Philips	0208, 0410, 1108, 1208

Pioneer	0033, 0099, 0169, 0550, 0649, 1042
Proscan	1273
Quasar	0058
RCA	0073, 0365, 0379, 0549, 0550, 1173, 1273
Realistic	0182, 0200, 0214
Sansui	0208, 0212, 0365, 1108
Sanyo	0238, 0820
Scott	0182, 0341
Sharp	0205
Sherwood	0081, 0510, 0521
Sony	0177, 0187, 0493, 1061, 1077, 1177, 1277
Soundesign	0689
Sunfire	0332, 0333, 1071, 1332
Teac	0182, 0482
Technics	0058, 0227, 0328, 0537, 1327, 1328, 1537
Thorens	1208
Victor	0093
Wards	0033, 0073, 0099, 0177, 0208
Yamaha	0195, 0205, 1195
Yorx	0214
Zenith	0876

Welcome to
Toshiba

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix

Index

Learning about the remote control

Only the buttons that are used to operate the TV set are described here.

POWER turns the TV on or off

SLEEP sets the TV to turn off at a specific time (page 39)

LIGHT The initial press of the LIGHT button causes two actions:

- 1) enables the illumination mode
- 2) illuminates the keypad.

Subsequent presses of the LIGHT button cause the Illumination mode to toggle between enabled and disabled. Any keypress illuminates the keypad for 5 seconds.

If in programming mode, the keypad will remain lit for 10 seconds.

When disabled, pressing the LIGHT button enables the illumination mode and lights the keypad.

Channel Numbers (0-9, 100) allow direct access to channels (pages 24, 25)

MODE cycles through the 6 device modes (TV, CABLE/SAT, VCR, DVD, AUDIO1, AUDIO2).

MENU/ENTER allows access to programming and sets programming menu information (page 23)

▲▼ ◀▶ selects or adjusts programming menus (page 23)

▶▶ (FAVORITE) selects your favorite channels (page 26)

VOL ▲▼ adjusts the volume level

EXIT sets programming menu information and exits programming menus (page 23)

CH ▲▼ cycles through programmed channels (page 24)

CH RTN (Channel Return) returns to the last viewed channel (page 26)

RECALL displays on-screen information (page 39)

MUTE mutes the sound (page 41)

INPUT selects video input source (page 24)

PIP Buttons allow access to PIP functions (page 36)

PIP turns the PIP on and off

PIP CH ▲▼ selects the PIP channels

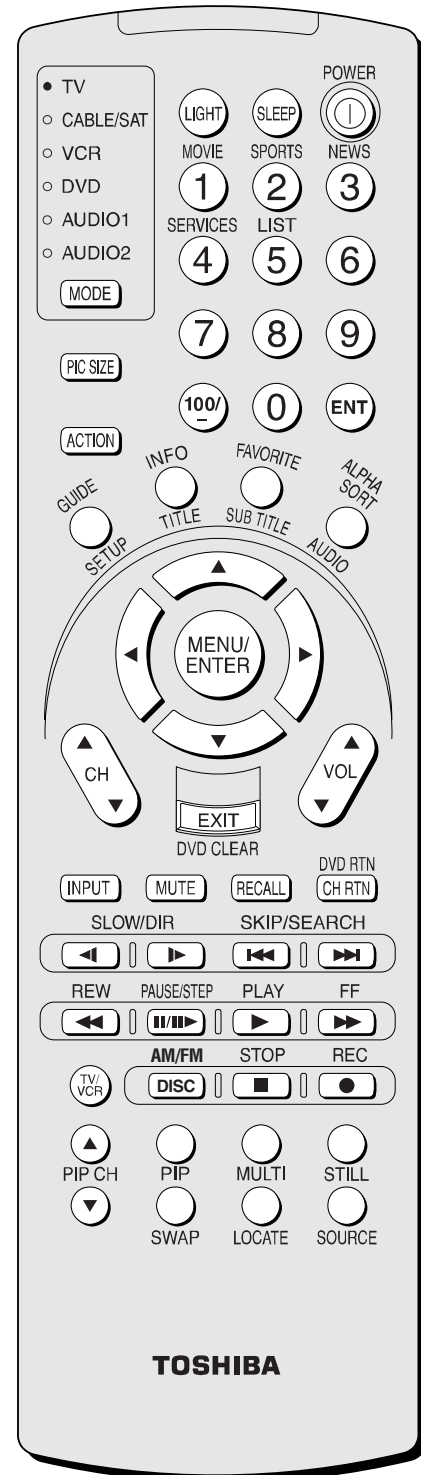
INFO allows access to the Multi-Window function

STILL freezes the PIP display

SOURCE selects the PIP source

LOCATE changes the location of the PIP window

SWAP switches the PIP and main pictures



Setting up your TV

After you have installed the batteries and programmed the remote control, you will need to set some preferences on your TV using the menu system. You can access the menus using the buttons on your TV or remote control.

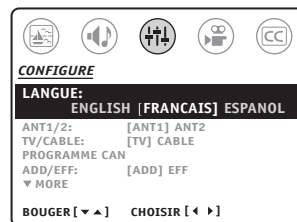
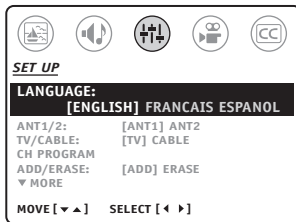
- When you make a menu selection, your changes occur immediately. You do not have to press **MENU** or **EXIT** to save your changes.
Note: The TV front panel does not have an **EXIT** button.
- When you are finished programming the menus, you can press **EXIT** to clear the on-screen display, or wait 15 seconds and the on-screen display will disappear automatically. Your changes are automatically saved either way.

Changing the on-screen display language

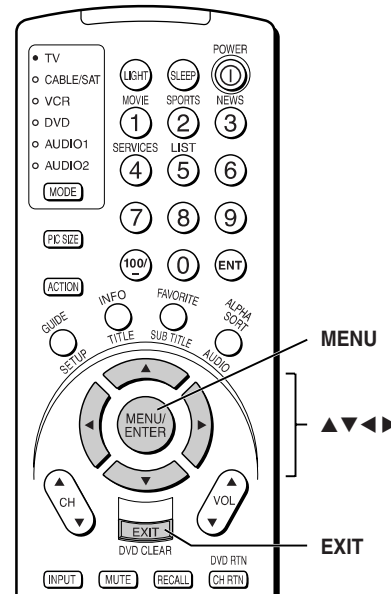
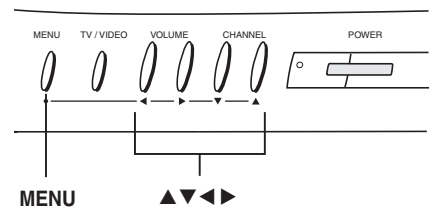
You can choose from three different languages (English, French, and Spanish) for the on-screen displays of menus and messages.

To select an on-screen display language:

1. Press **MENU**.
2. Press ◀ or ▶ until the SET UP menu appears.
3. Press ▲ or ▼ to highlight LANGUAGE.
4. Press ◀ or ▶ to highlight your desired language.



TV Front Panel

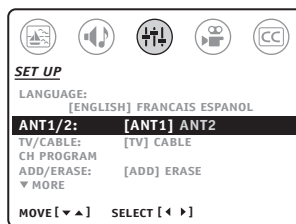


Selecting the antenna input

You can connect to one of two different antenna input sources using the antenna input (ANT 1 or ANT 2).

To select the antenna input:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight ANT 1/2.
4. Press ◀ or ▶ to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.



Selecting the signal source

Use the **INPUT** button on the remote control (or the **TV/VIDEO** button on the TV) to monitor or change the signal source connected to your TV.

To monitor the signal source:

Press **INPUT** (or **TV/VIDEO**) once. The current signal source displays in green.

To change the signal source:

Repeatedly press **INPUT** (or **TV/VIDEO**) to select either VIDEO 1, VIDEO 2, VIDEO 3, ColorStream, ANT 1, or ANT 2. The selected signal source displays in green.

VIDEO 1	
VIDEO 2	ANT 1
VIDEO 3	
ColorStream	ANT 2
TO SELECT PUSH TV/VIDEO	

Watching video input

To view a signal from other devices connected to your TV (such as a VCR or DVD player):

Repeatedly press **INPUT** on the remote control (or **TV/VIDEO** on the TV) to select either VIDEO 1, VIDEO 2, VIDEO 3, or ColorStream. (For device connections, see "Connecting your TV" on page 8).

Adding channels to the TV's memory

When you press **CHANNEL ▲/▼** on the TV or remote control, the TV stops only on the channels stored in the TV's memory.

Note: To tune the TV to a channel not programmed in the TV's memory, use the **CHANNEL NUMBERS** on the remote control.

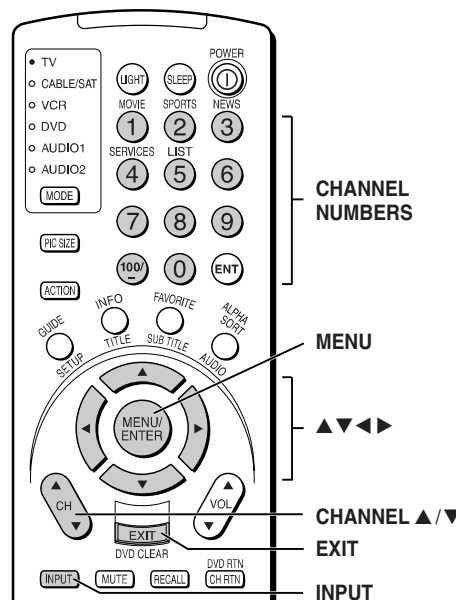
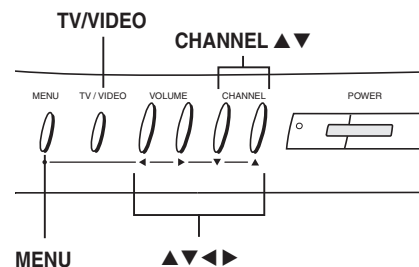
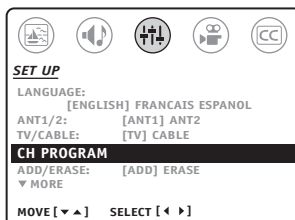
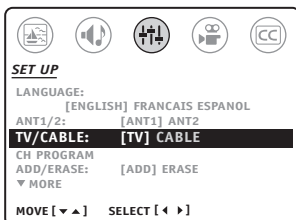
Follow the steps below and on the next page to program channels into the TV's memory.

Programming channels automatically

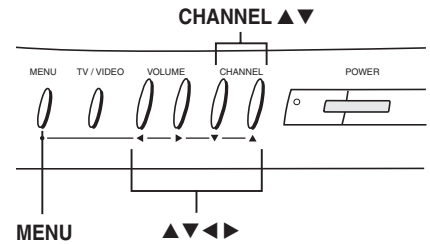
Your TV can automatically detect all active channels in your area and store them in the TV's memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 25). If you use both ANT-1 and ANT-2 terminals, you will need to program channels for each input source.

To program channels automatically:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight TV/CABLE.
4. Press ◀ or ▶ to highlight TV (if you use an antenna) or CABLE (if you use cable).
5. Press ▼ to highlight CH PROGRAM.



- Press ◀ or ▶ to start automatic channel programming (“CH PROGRAM” displays on-screen). The TV automatically cycles through every TV or cable channel (depending on which you selected), and stores all active channels in the TV’s memory.
- When automatic channel programming is complete, the message “CH Programming Completed” appears.
- Press **CHANNEL ▲/▼** to view the programmed channels.

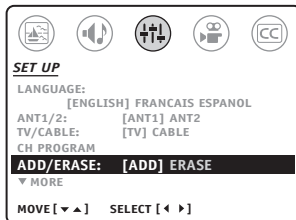


Adding and erasing channels manually

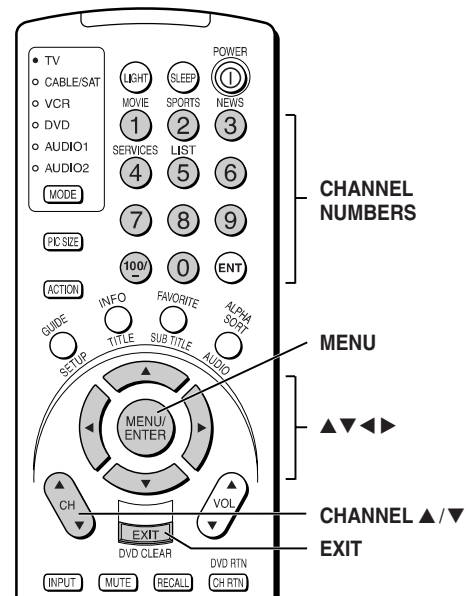
After you have automatically programmed the channels into the TV’s memory, you can manually add and erase individual channels.

To add a channel to or erase a channel from the TV’s memory:

- Tune the TV to the channel you want to add or erase. If you are adding a channel, you will need to use the **CHANNEL NUMBERS** to select the channel.
- Press **MENU**.
- Press ◀ or ▶ to highlight the SET UP menu.
- Press ▲ or ▼ to highlight ADD/ERASE.



- Press ◀ or ▶ to highlight ADD or ERASE, whichever function you want to perform.
- Press **MENU**.
- Repeat steps 1–6 for other channels you want to add or erase, or press **EXIT** to return to normal TV viewing.



Changing channels

To change to the next programmed channel:

Press **CHANNEL ▲/▼**.

To change to a specific channel (programmed or unprogrammed):

Press the **CHANNEL NUMBERS** (0–9 and 100).

Note: For channels 100 and higher, press the 100 button, and then the next two channel numbers (for example, to select channel 100, press 100, 0, 0; to select channel 125, press 100, 2, 5).

Using the TV's features

Adjusting the channel settings

Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel using the **CHANNEL NUMBERS** (0–9 and 100).
3. Press **CH RTN** (channel return). The previous channel will display.

Every time you press **CH RTN**, the TV will switch back and forth between the last two channels you tuned the TV to.

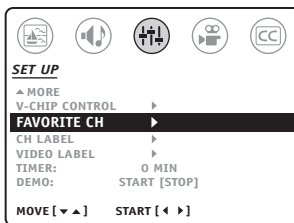
Programming your favorite channels

The Favorite Channel feature allows you to use the **◀/▶ (FAVORITE)** buttons on the remote control to cycle through your favorite channels, skipping over channels you do not normally watch. You can program a maximum of 12 favorite channels.

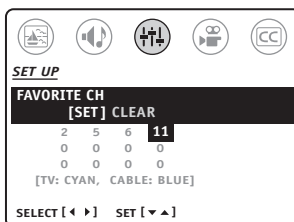
Note: You can still use **CHANNEL ▲/▼** to cycle through all the channels you previously programmed into the TV's memory (see "Adding channels to the TV's memory" on page 24).

To program your favorite channels:

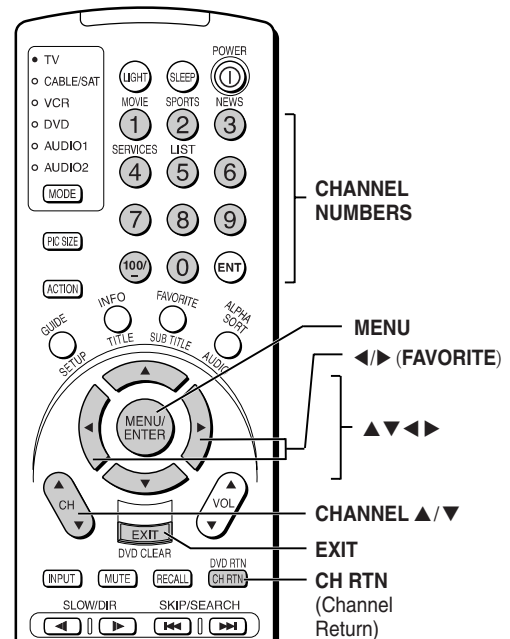
1. Tune the TV to a channel you want to program as a favorite channel.
2. Press **MENU**.
3. Press **◀** or **▶** to highlight the SET UP menu.
4. Press **▲** or **▼** to highlight FAVORITE CH.



5. Press **◀** or **▶** to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
6. Press **◀** or **▶** to highlight SET.
7. Press **▼** to add the current channel to the list.
8. Press **MENU**.



9. Repeat steps 1–8 for a maximum of 12 channels, or press **EXIT** to close the menu.



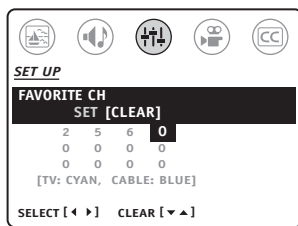
To select your favorite channels:

Press the ◀/▶ (**FAVORITE**) buttons on the remote control to cycle through the favorite channels you programmed.

Note: The Favorite Channel feature will not work unless you program at least one favorite channel.

To clear a favorite channel:

1. Tune the TV to the channel you want to clear from your favorite channel list.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight FAVORITE CH.
5. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
6. Press ◀ or ▶ to highlight CLEAR.



7. Press ▼ to clear the current channel number from the list.
8. Press **MENU**.
10. Repeat steps 1–8 for other channels you want to clear from your favorite channel list, or press **EXIT** to close the menu.

Using the V-Chip menu

You can use the V-Chip feature to block certain programs or channels to prevent others from viewing them.

Selecting a PIN code

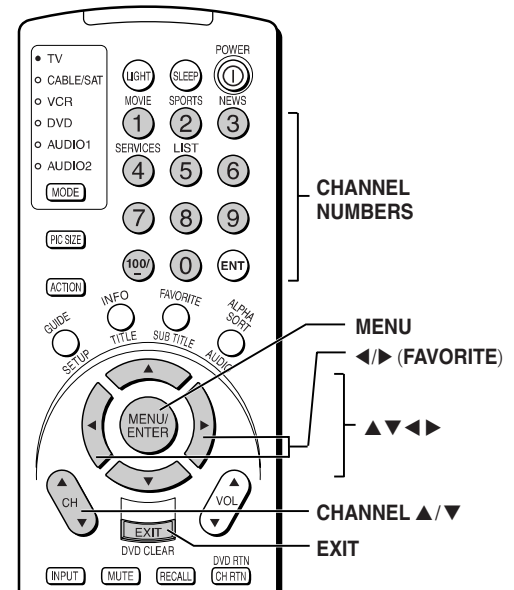
Before you can block programs and channels, you need to select a personal identification number (PIN) code. The PIN code you select allows you to access the V-Chip menu and prevents others from changing the rating and blocking limits you set.

To select your PIN code and access the V-Chip menu:

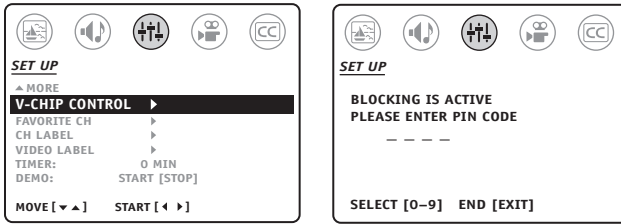
1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.

Note:

The ◀/▶ (**FAVORITE**) buttons function as menu ◀/▶ buttons when a menu is on-screen.

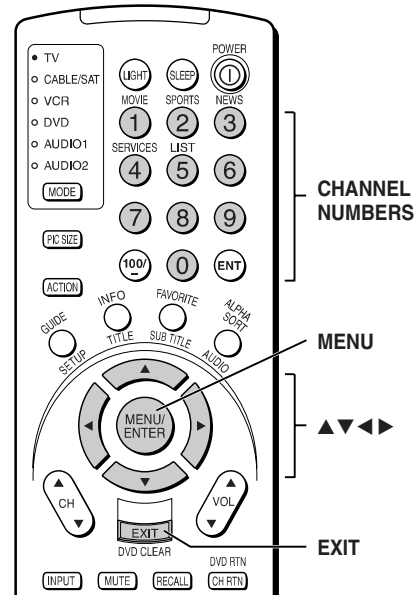
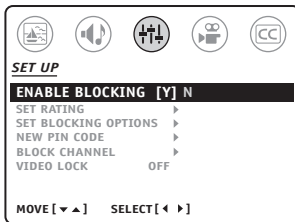


3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the Enter PIN Code screen.



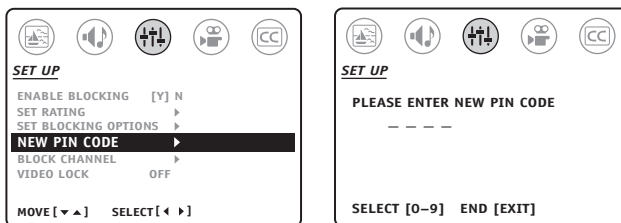
5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, select a four-digit number to be your PIN code. After the code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◀ or ▶ to highlight “Y,” which enables all blocking by activating the V-Chip. See “Blocking programs by ratings” on page 29, “Blocking unrated movies or programs” on page 31, and “Blocking channels” on page 32.

(**Note:** Highlight “N” to deactivate the V-Chip and disable blocking.)



Changing your PIN code

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the Enter PIN Code screen.
5. Use the Channel Number buttons (0–9) to enter your existing PIN code. After the code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight NEW PIN CODE.
7. Press ◀ or ▶ to display the New PIN Code screen.



8. Use the **CHANNEL NUMBERS** (0–9) to enter a new code. After the new code is entered, the V-Chip Control menu appears.
9. Press **EXIT** to return to normal TV viewing.

Note:

If you forget your PIN code:

- Follow steps 1–4 under “Changing your PIN code” at left.
- Then press **RECALL** four times within five seconds.

This allows you to proceed to the V-Chip Control menu and reset your PIN code.

Blocking programs by ratings

The Motion Picture Association of America (MPAA) uses a rating system to qualify motion picture content. Television broadcasters employ a similar rating system to qualify the content of television programs. The MPAA, Youth TV, and TV ratings work with the V-Chip feature to allow you to block access to programs that exceed the rating limits you set.

Ratings definitions

MPAA Ratings

X	For adults only.
NC17	Not intended for anyone 17 or under.
R	Restricted. Under 17 requires an accompanying parent or adult guardian.
PG13	Parents strongly cautioned. Some material may not be appropriate for children under 13.
PG	Parental guidance suggested. Some material may not be appropriate for children.
G	General audience. Appropriate for all ages.

Youth TV Ratings

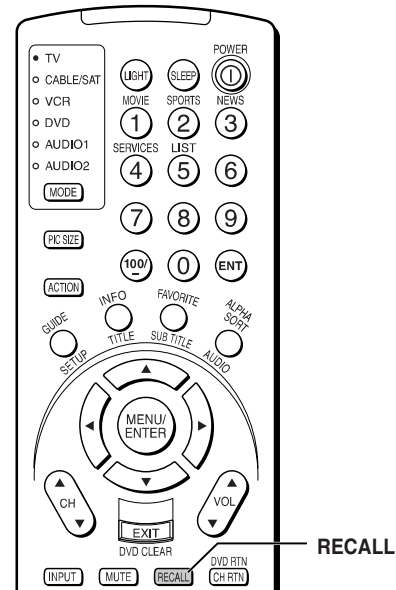
Y7 Y7FV	Directed to older children. Programs rated Y7 are designed for children 7 and above. Programs in which fantasy violence may be more intense or combative than other programs in this category are rated Y7FV.
Y	For all children. Programs rated Y are designed to be appropriate for all children.

TV Ratings

MA	Mature audience only. This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.
	Language Crude or indecent language.
	Sex Explicit sexual activity.
	Violence Graphic violence.
14	Parents strongly cautioned. This program contains some material that many parents would find unsuitable for children under 14 years of age.
	Dialog Intensely suggestive dialog.
	Language Strong, coarse language.
	Sex Intense sexual situations.
	Violence Intense violence.
PG	Parental guidance suggested. This program contains material that parents may find unsuitable for younger children.
	Dialog Some suggestive dialog.
	Language Infrequent coarse language.
	Sex Some sexual situations.
	Violence Moderate violence
G	General audience. Most parents would find this program suitable for all ages.
No DLSV	Programs without any Dialog, Language, Sex, or Violence ratings.

Note:

Press **RECALL** to see the rating of the program you are viewing.

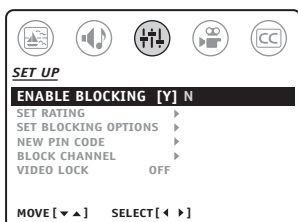


Blocking programs by ratings (cont.)

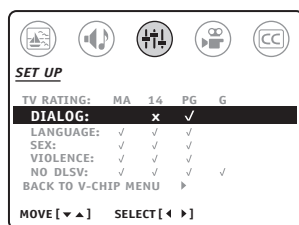
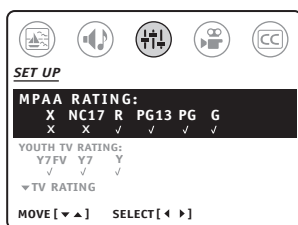
To block programs by rating:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the Enter PIN Code screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code.
If you are accessing the V-Chip menu for the first time, select a four-digit number to be your PIN code. After the code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◀ or ▶ to highlight “Y,” which enables all blocking by activating the V-Chip.

(**Note:** Highlight “N” to deactivate the V-Chip and disable blocking.)



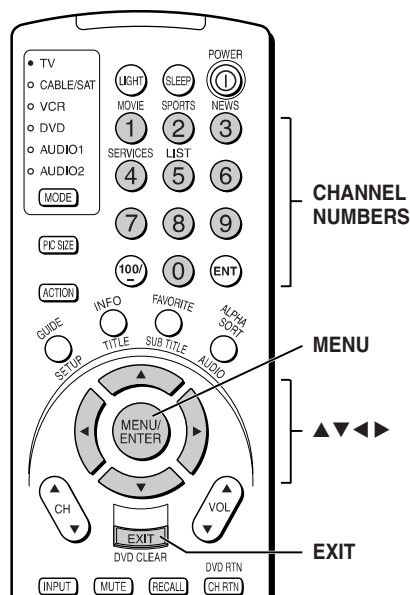
8. Press ▲ or ▼ to highlight SET RATING.
9. Press ◀ or ▶ to display the Set Rating menu.
10. Press ▲ or ▼ to highlight MPAA Rating, Youth TV Rating, or TV Rating.
11. Press ▶ to select (or ◀ to deselect) the ratings to be blocked. Blocked ratings are signified with the symbol “X.” Unblocked ratings are signified with the symbol “✓.” As you block ratings, all ratings higher than the ones you select are blocked as well. For example, if you block the MPAA rating R, the higher ratings NC17 and X will also be blocked.



12. When you finish selecting the ratings to be blocked:
 - To return to the V-Chip menu, press ▲ or ▼ to highlight **BACK TO V-CHIP MENU**, and then press ◀ or ▶.
 - To return to normal TV viewing, press **EXIT**.

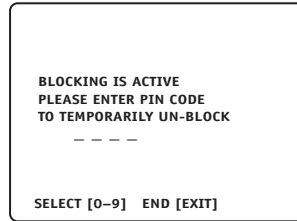
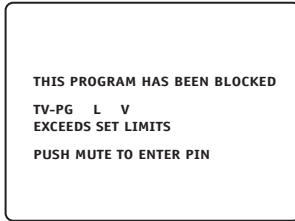
Note:

Not all programs are rated. To block programs or movies that are unrated, see “Blocking unrated movies and programs” on page 31.



Unblocking programs temporarily

When you try to view a program with a ratings block, a message appears stating that the program has been blocked because the program's rating exceeds the set limits. To temporarily override the block and view the program, press **MUTE** and enter your PIN code. To reset your original ratings blocks, turn the TV off and then on again.

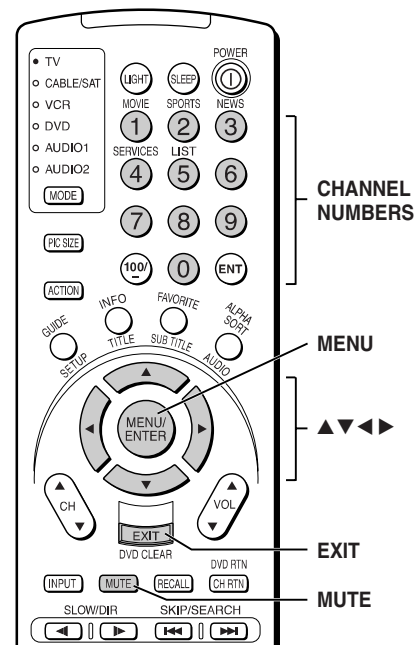
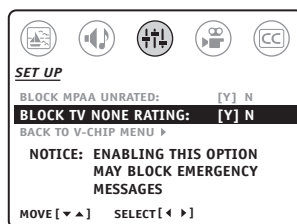
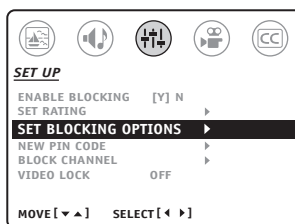


Blocking unrated movies and programs

Some movies and programs are not rated. You can use the V-Chip to block unrated movies and programs.

To block unrated movies and programs:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the Enter PIN Code screen.
5. Use the Channel Number buttons (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, select a four-digit number to be your PIN code. After the PIN code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◀ or ▶ to highlight “Y,” which enables all blocking by activating the V-Chip.
(**Note:** Highlight “N” to deactivate the V-Chip and disable blocking.)
8. Press ▲ or ▼ to highlight SET BLOCKING OPTIONS.
9. Press ◀ or ▶ to display the unrated movie/program blocking menu.
10. Press ▲ or ▼ to highlight BLOCK TV NONE RATING.
11. Press ◀ or ▶ to highlight “Y” to block movies/programs rated “TV None.” (**Note:** Highlight “N” to unblock unrated programs.)
12. Press **EXIT** to return to normal TV viewing.



Caution:

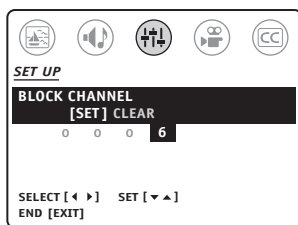
Blocking unrated television programs (with a rating of “TV NONE”) may block emergency messages.

Blocking channels

You can block a maximum of four TV channels and four cable channels. Blocked channels cannot be viewed regardless of their ratings. If you try to display a blocked channel, the TV will display the nearest unblocked channel.

To block a channel:

1. Tune the TV to the channel you want to block.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight V-CHIP CONTROL.
5. Press ◀ or ▶ to display the Enter PIN Code screen.
6. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, choose a four-digit number to be your PIN code. After entering the code, the V-Chip Control menu appears.
7. Press ▲ or ▼ to highlight ENABLE BLOCKING.
8. Press ◀ or ▶ to highlight “Y,” which enables all blocking by activating the V-Chip.
(**Note:** Highlight “N” to deactivate the V-Chip and disable blocking.)
9. Press ▲ or ▼ to highlight BLOCK CHANNEL.
10. Press ◀ or ▶ to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
11. Press ◀ or ▶ to highlight SET.
12. Press ▼ to add the current channel to the list.
13. Press **MENU**.

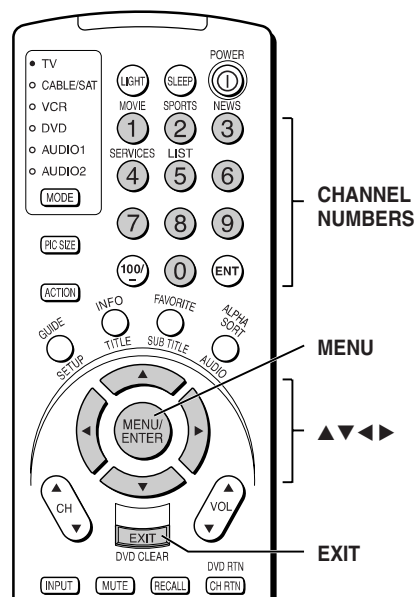


14. Press **EXIT**.
15. Repeat steps 1–14 to block additional channels.

To unblock all blocked channels:

Note: This will unblock every channel you have blocked. You cannot unblock individual channels.

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the Enter PIN Code screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, choose a four-digit number to be your PIN code. After entering the code, the V-Chip Control menu appears.



Note:

After programming CHANNEL BLOCK, tune the TV to a channel that is not blocked before turning it off.

6. Press ▲ or ▼ to highlight BLOCK CHANNEL.
7. Press ◀ or ▶ to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
8. Press ◀ or ▶ to highlight CLEAR.
9. Press ▼ to clear all blocked channels from the list.
10. Press **MENU**.
11. Press **EXIT** to return to normal TV viewing.

Locking video inputs

You can use the Video Lock feature to block the input sources (Video 1, Video 2, Video 3, and ColorStream) and channels 3 and 4.

Note: The Video Lock feature is independent of the Enable Blocking option of V-Chip control.

The Video Lock options are:

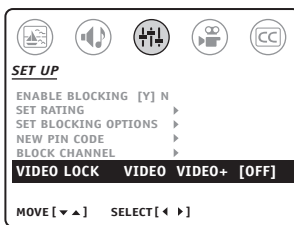
Video: Blocks Video 1, Video 2, Video 3, and ColorStream.

Video+: Blocks Video 1, Video 2, Video 3, ColorStream, and channels 3 and 4.

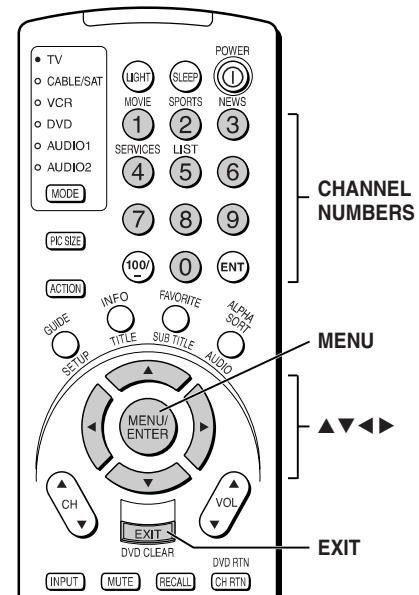
Off: Disables the Video Lock feature.

To set up video lock:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the Enter PIN Code screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, choose a four-digit number to be your PIN code. After entering the code, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight VIDEO LOCK.
7. Press ◀ or ▶ to select the desired level of video locking (Video, Video+, or Off).



8. Press **EXIT** to return to normal TV viewing.



Note:

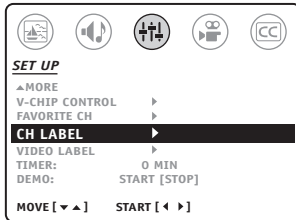
In normal TV viewing, if you cannot access the input sources (Video 1, Video 2, Video 3, and ColorStream) or channels 3 and 4, check the Video Lock setting and highlight OFF if necessary.

Channel labels

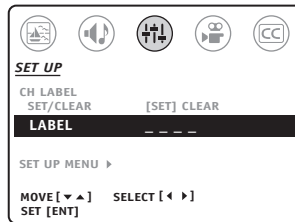
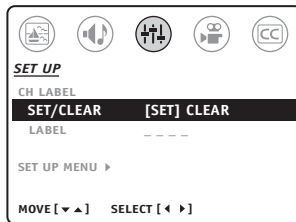
A channel label displays on the screen above the channel number every time you turn the TV on, change the channel, or press **RECALL**. You can assign labels to a maximum of 32 channels. You can choose up to four characters for a channel label.

To create a channel label:

1. Tune the TV to the channel you want to label.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight CH LABEL.



5. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
6. Press ◀ or ▶ to highlight SET.
7. Press ▼ to highlight LABEL.

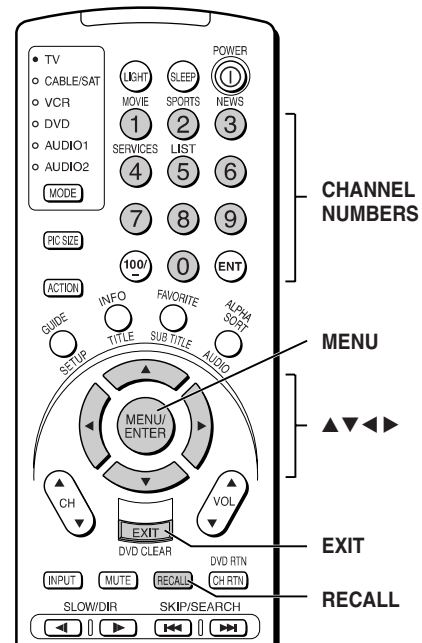


8. Press ◀ or ▶ repeatedly to scan through the list of available characters until the desired character appears in the first space.
9. Press **MENU**.
10. Repeat steps 8 and 9 to enter the rest of the characters.

Note: For a blank space in the label name, you must choose an empty space from the list of characters; otherwise, a dash will appear in the space.
11. Repeat steps 1–10 for a maximum of 32 channels.
12. Press **EXIT** to return to normal TV viewing.

To erase a channel label:

1. Select the channel whose label you want to erase.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight CH LABEL.
5. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
6. Press ◀ or ▶ to highlight CLEAR.
7. Press **MENU**.
8. Repeat steps 1–7 to erase other channel labels, or press **EXIT** to return to normal TV viewing.



Video labels

The Video Label feature allows you to label each input source for your TV from the following preset list of labels:

–: Uses the default label name

VCR: Video cassette recorder

DVD: Digital video disc or digital versatile disc

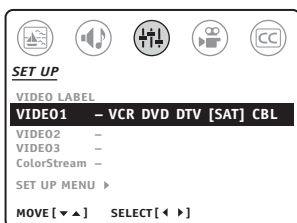
DTV: Digital TV set-top box

SAT: Satellite box

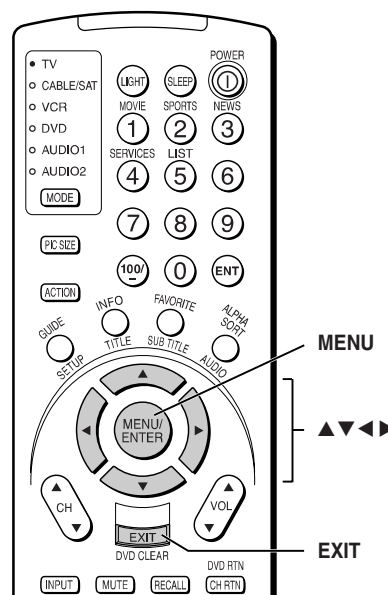
CBL: Cable box

To set up video labels:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight VIDEO LABEL.
4. Press ◀ or ▶ to display the Video Label screen.
5. Press ▲ or ▼ to highlight the input source to be labeled (VIDEO 1, VIDEO 2, VIDEO 3, or ColorStream).
6. Press ◀ or ▶ to select the desired label for that input source.



7. Repeat steps 1–6 to label the other input sources.
8. When you finish setting up video labels:
 - To return to the previous menu, press ▲ or ▼ to highlight SET UP MENU, and then press ◀ or ▶.
 - To return to normal TV viewing, press **EXIT**.

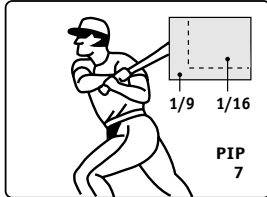


Watching picture-in-picture (PIP)

The picture-in-picture (PIP) feature allows you to watch two pictures at the same time. The small PIP window can display a signal from a TV broadcast or an external source, such as a VCR.

To display a TV broadcast in the PIP window:

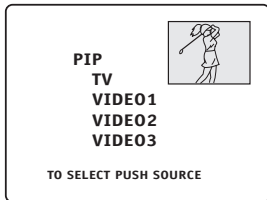
1. Tune the TV to the program you want to watch in the main window.
2. Press **PIP** to display a small picture (one press displays a PIP window 1/9 the size of the screen; two presses display a 1/16-size window).



3. Press **PIP Channel ▲/▼** to change the PIP window channel. Press **Channel ▲/▼** to change the main window channel.

To display an external source in the PIP picture:

1. Connect the external equipment through the ANT-1 connection on the TV (an ANT-2 source will not display as a PIP). For connection information, see “Connecting your TV” on page 8.
2. Turn on the TV and select the program/source you want to watch in the main window.
3. Press **PIP** to display a small picture (one press displays a PIP window 1/9 the size of the screen; two presses display a 1/16-size window).
4. Press **SOURCE** to select the PIP input source (TV, VIDEO 1, VIDEO 2, or VIDEO 3). The current source will display on-screen in green.

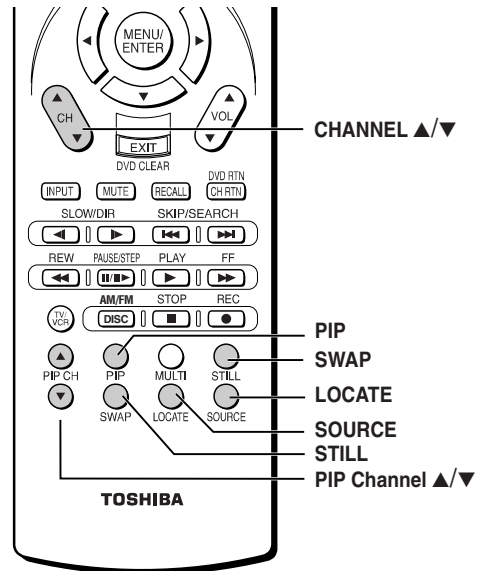
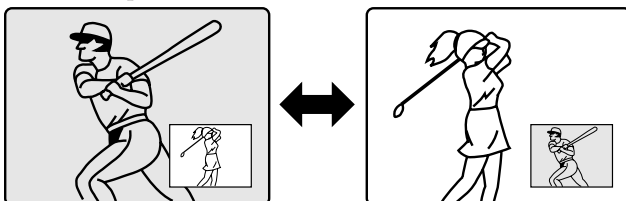


To turn PIP off:

Press **PIP** one or two times, depending on the size of the small picture screen you selected.

Switching the main and small pictures

With the TV in PIP mode, repeatedly press **SWAP** to switch the main and small pictures back and forth.

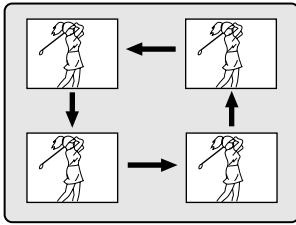


Note:

The PIP window will not open when a ColorStream (component video) source is being viewed.

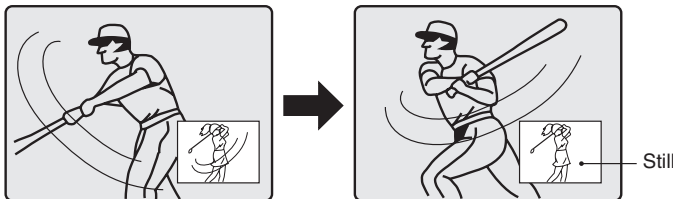
Changing the location of the PIP window

With the TV in PIP mode, press **LOCATE** to change the location of the PIP window on-screen. Every time you press **LOCATE**, the PIP window changes position counter-clockwise.



Freezing the PIP display

With the TV in PIP mode, press **STILL** to freeze the PIP display. The PIP picture becomes still and is outlined in red on-screen. Press **STILL** again to restore the moving picture (outlined in green).



Watching multi-window PIP

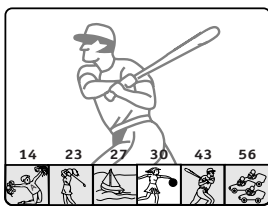
Multi-window PIP appears as six small boxes across the bottom of the screen. The multi-window PIP displays only the channels you programmed into the TV's memory (see "Adding channels to the TV's memory" on page 24).

Note: The **LOCATE**, **SWAP**, **PIP CHANNEL ▲▼**, **SOURCE**, and **STILL** buttons do not function in multi-window PIP mode.

To view multi-window PIP:

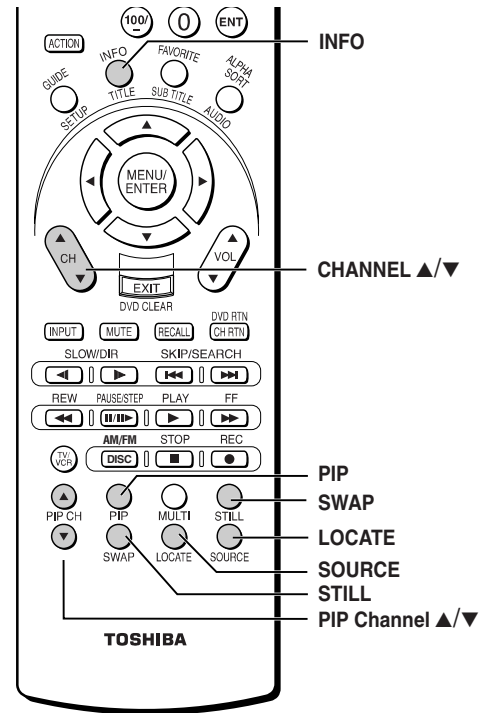
Press **INFO**.

The TV cycles through all of the programmed channels, showing a few seconds of each channel's programming, and then freezes the image and moves on to the next channel in a continuous cycle. The channel number appears above each small PIP window.



To turn multi-window PIP off:

Press **INFO** again or change the channel.



Note:

Multi-window PIP displays channels programmed for the signal source you are currently viewing (ANT-1 or Cable). See "Adding channels to the TV's memory" on page 24.

If V-Chip blocking is enabled when you view multi-window PIP, the channels exceeding the rating limits will appear as a black window with a red "X."

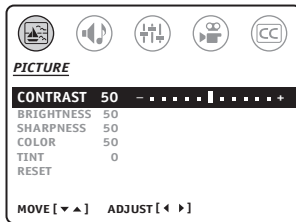
Adjusting the picture

Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the contrast, brightness, sharpness, color, and tint. Your picture quality adjustments are stored automatically in the TV's memory. You can keep these settings or choose preset options under the PREFERENCES menu. (See "Selecting the color temperature" below, and "Adjusting the picture preference" on the next page.)

To adjust the picture quality:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the PICTURE menu.
3. Press ▲ or ▼ until the quality you want to adjust is highlighted.



4. Press ◀ or ▶ to adjust the level.

Selection	Pressing	
	◀	▶
Contrast	Lower	Higher
Brightness	Darker	Lighter
Sharpness	Softer	Sharper
Color	Paler	Deeper
Tint	Reddish	Greenish

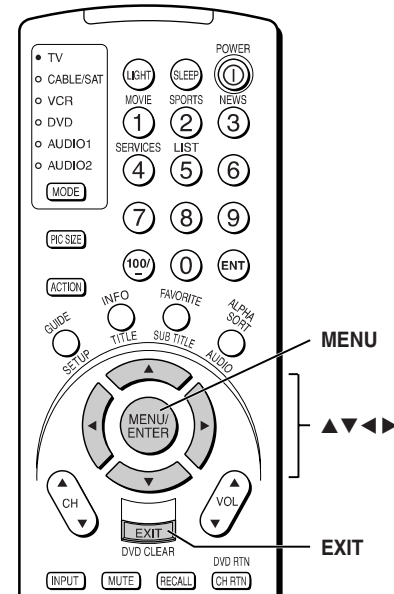
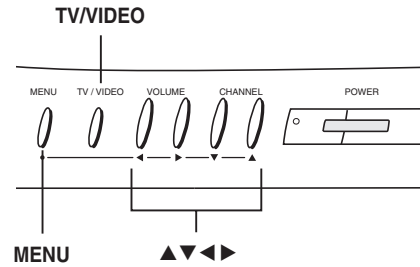
Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures: cool, medium, and warm.

Mode	Picture Quality
Cool	Blueish
Medium	Neutral
Warm	Reddish

To select the color temperature:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the PREFERENCES menu.
3. Press ▲ or ▼ to highlight COLOR TEMPERATURE.
4. Press ◀ or ▶ to highlight the mode you prefer.



Note:

To reset the picture adjustments to the factory settings, select RESET in the PICTURE menu.

Adjusting the picture preference

You can select the picture type from four picture modes—Sports, Standard, Movie, and Memory, as described in the following table:

Mode	Picture Quality
Sports	Bright and dynamic picture (factory-set)
Standard	Standard picture quality (factory-set)
Movie	Movie-like picture setting (factory-set)
Memory	Your personal preferences (set by you; see “Adjusting the picture quality” on page 38.)

To select your picture preference:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the Preferences (“PREFER”) menu.
3. Press ▲ or ▼ to highlight PICTURE PREFERENCE.
4. Press ◀ or ▶ to highlight the mode you prefer.

Displaying on-screen information

Press **RECALL** to display the following information on-screen:

- Antenna mode (when in TV mode)
- Channel number or video mode
- Channel label (if set)
- Audio status (stereo or SAP)
- Rating of current program (if rated)

Setting the sleep timer

The sleep timer turns the TV off automatically.

To set the sleep timer:

1. Press **SLEEP**.
2. Press ▶ to increase and ◀ to decrease the amount of time until the TV turns off (in 10-minute increments to a maximum of 180).
3. Press **EXIT** to exit the menu and return to normal TV viewing.

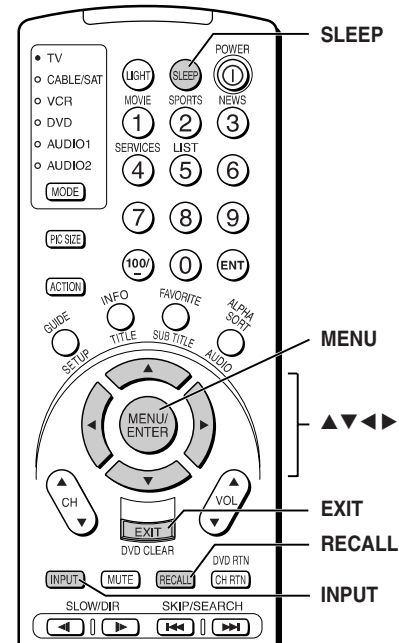
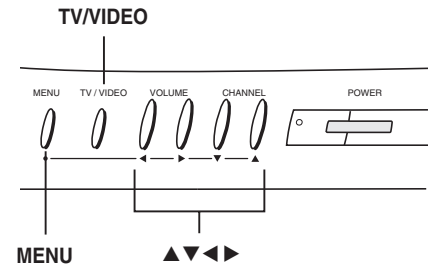
To cancel the sleep timer:

Set the sleep timer to 0 (zero) minutes, or turn the TV off and then on again.

Auto power off

The TV turns itself off automatically after approximately 15 minutes if it is tuned to a vacant channel or a station that stops broadcasting for the day.

Note: The auto power off feature does not work in VIDEO mode.



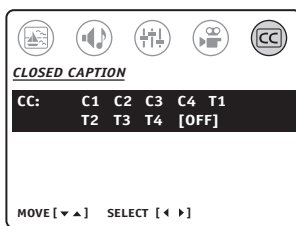
Using the closed caption feature

The Closed Caption feature has two options:

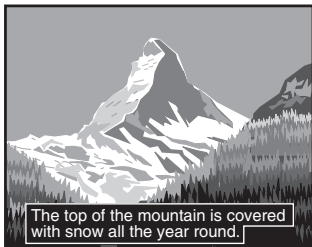
- **Captions**—An on-screen display of the dialogue, narration, and sound effects of programs and videos that are closed-captioned (usually identified in your local TV listing as “CC”).
- **Text**—An on-screen display of information not related to the program, such as weather or stock data (if available in your viewing area).

To view captions or text:

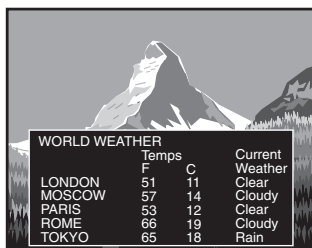
1. Tune the TV to the desired program or video.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the CLOSED CAPTION (“CC”) menu.
4. Press ▲ or ▼ to highlight CC.



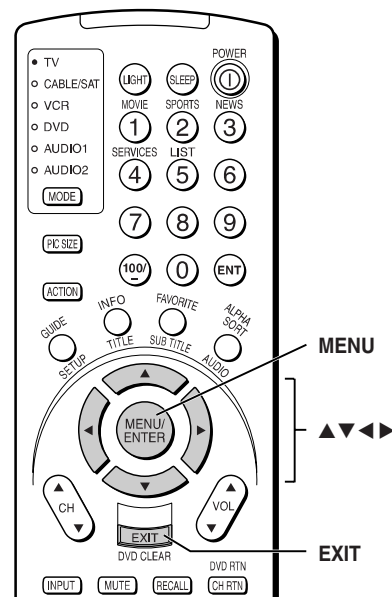
5. Press ◀ or ▶ to select the desired Closed Caption mode, as follows:
 - To view captions, select C1, C2, C3, or C4 (C1 displays translation of the primary language in your area). **Note:** If the program or video you selected is not closed-captioned, no captions will display on the screen.



- To view text, select T1, T2, T3, or T4. **Note:** If text is not available in your viewing area, a black rectangle may appear on your screen. If this occurs, turn the Closed Caption feature off.



- To turn the Closed Caption feature off, highlight OFF in the Closed Caption menu.



Note:

A closed caption signal may not display in the following situations:

- When a videotape has been dubbed
- When the signal reception is weak
- When the signal reception is non-standard

Adjusting the sound

Muting the sound

Press **MUTE** to temporarily turn the sound off. While the sound is off, the screen displays the word “MUTE” in the lower /right corner. To restore the sound, press **MUTE** or **VOLUME ▲/▼**.

When you press **MUTE**, the Closed Caption feature is automatically activated. To deactivate captions and restore normal sound, press **MUTE** again. This feature works only when the Closed Caption mode is set to OFF. See “Using the closed captioned feature” on page 40 for more information about closed caption settings.

Selecting stereo/SAP broadcasts

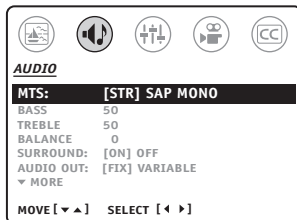
The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information. **Note:** The MTS feature is not available in VIDEO mode.

In general, you can leave your TV in stereo mode because the TV automatically outputs either stereo or monaural (“mono”) sound, depending on the broadcast type.

When the TV receives a stereo or SAP broadcast, the word “STEREO” or “SAP” displays on the screen every time you turn the TV on, change the channel, or press **RECALL**.

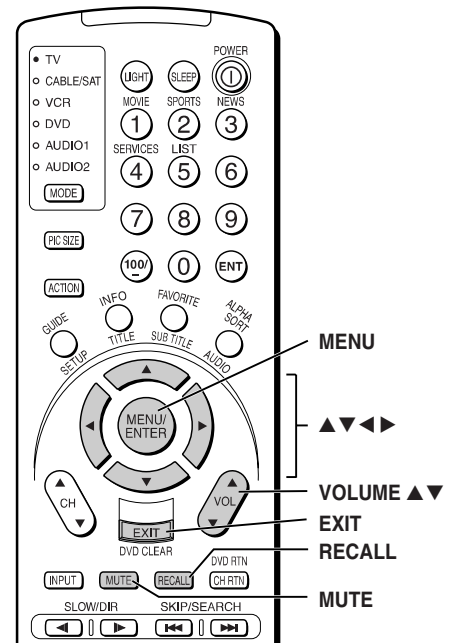
To listen to stereo sound:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight MTS.
4. Press ◀ or ▶ to highlight STR (stereo).
Note: If the stereo sound is noisy, select MONO to reduce the noise.



To listen to a second audio program (SAP):

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight MTS.
4. Press ◀ or ▶ to highlight SAP. The TV speakers will output only the second audio program.

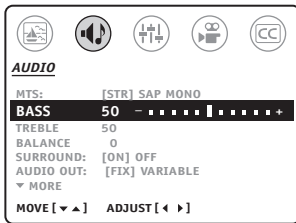


Adjusting the sound quality

You can change the sound quality of your TV by adjusting the bass, treble, and balance.

To adjust the sound quality:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight the quality you want to adjust.
4. Press ◀ or ▶ to adjust the level:
 - ◀ makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
 - ▶ makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.

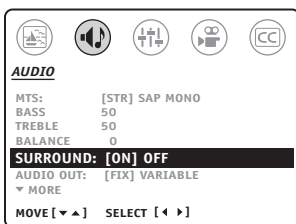


Using the surround sound feature

The surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV speakers. This feature uses stereo signals from a TV broadcast or video input.

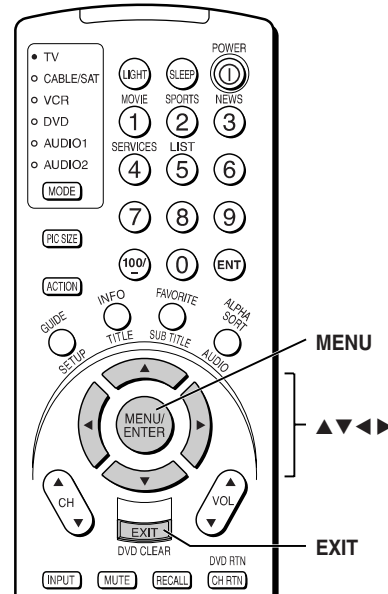
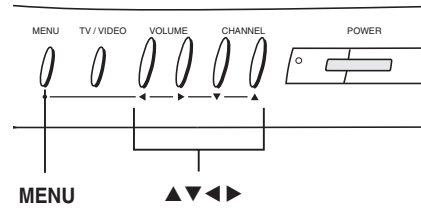
To turn the surround sound feature on:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. If you have not already done so, select STEREO mode (press ▲ or ▼ to highlight MTS, and then press ◀ or ▶ to highlight STR).
4. Press ▲ or ▼ to highlight SURROUND.
5. Press ◀ or ▶ to highlight ON.



To turn the surround sound feature off:

Highlight OFF in step 5 above. **Note:** In general, you can leave the surround sound feature on because it automatically outputs surround stereo or monaural sound, depending on the broadcast or video type.



Note:

To reset the audio adjustments to the factory settings, select **RESET** in the **PICTURE** menu (see page 38).

Selecting variable audio OUT

If you connect external audio equipment (such as a stereo audio amplifier or surround sound system) to the TV's Audio OUT jack, you can use the AUDIO OUT feature to select either variable or fixed audio output.

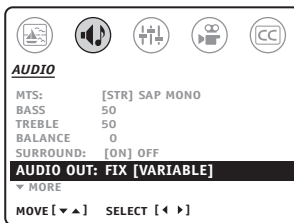
- If you set AUDIO OUT to VARIABLE, you can use the volume controls on either the TV or the audio equipment to adjust the sound level coming through the audio equipment.
- If you set AUDIO OUT to FIX, you must use the volume controls on the audio equipment to adjust the sound level coming through the audio equipment (the TV's volume setting will have no effect).

Note: Fixed audio output provides a cleaner signal than variable audio output.

See page 12 for details on connecting an audio amplifier to the TV's Audio OUT jack.

To select variable audio output:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight AUDIO OUT.
4. Press ◀ or ▶ to highlight VARIABLE.



To select fixed audio output:

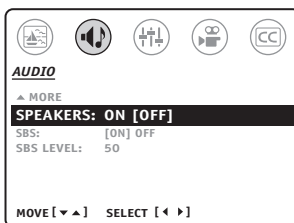
1. Highlight FIX in step 4 above.

Turning off the built-in speakers

Use this feature to turn off the TV's built-in speakers when you connect external speakers to your TV (see "Connecting an audio amplifier" on page 12).

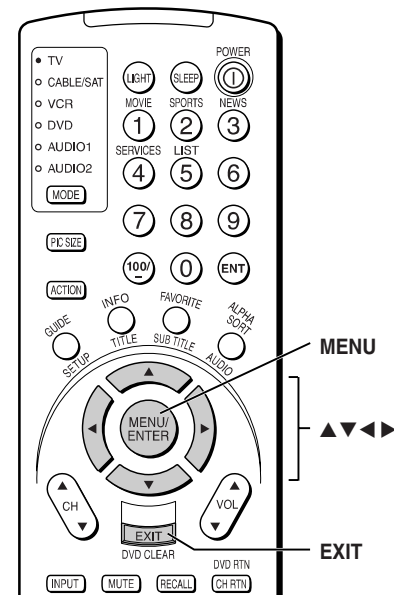
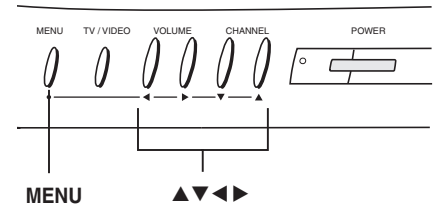
To turn off the built-in speakers:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight SPEAKERS.
4. Press ◀ or ▶ to highlight OFF.



To turn on the built-in speakers:

1. Highlight ON in step 4 above.

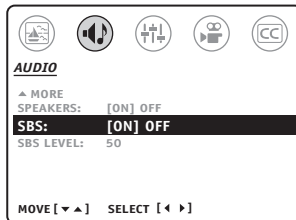


Using the sub-bass system (SBS)

The sub-bass system (SBS) allows you to enhance bass performance, even when the volume is low.

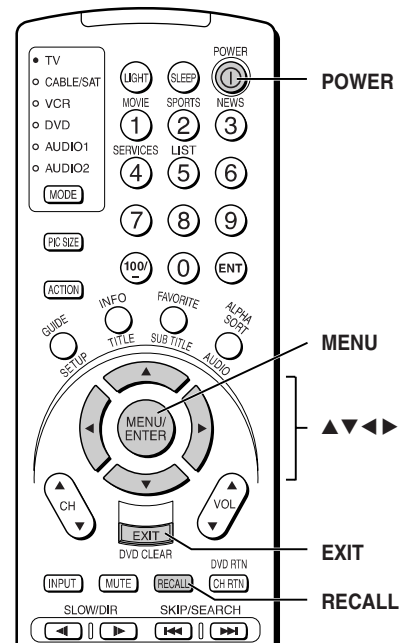
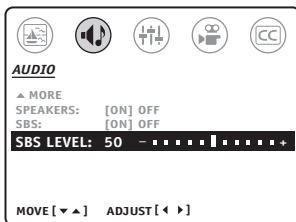
To turn the sub-bass system on [or off]:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight SBS.
4. Press ◀ or ▶ to highlight ON [or OFF].



To adjust the sub-bass system:

1. Turn the sub-bass system on, as instructed above.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the AUDIO menu.
4. Press ▲ or ▼ to highlight SBS LEVEL.
5. Press ◀ or ▶ to adjust the SBS level.



Viewing the demonstration (DEMO) mode

The demonstration (DEMO) mode is an option available on the SET UP menu that will demonstrate several features of your TV.

To start the demonstration mode:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight DEMO.
4. Press ◀ or ▶ to highlight START.
4. Press **MENU** to start the demo.

To stop the demonstration mode:

Press **RECALL**, **EXIT**, or **POWER**.

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature turns the TV on automatically when the power is resupplied.

If the power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.

Appendix

Troubleshooting

Before calling a service technician, please check the following table for possible causes of the problem and some solutions.

Problem	Solution
TV will not turn on	<ul style="list-style-type: none">• Make sure the power cord is plugged in, then press POWER.• The remote control batteries may be dead. Replace the batteries or press the POWER button on the TV.
No picture, no sound	<ul style="list-style-type: none">• Check the antenna/cable connections.
No sound, picture OK	<ul style="list-style-type: none">• The sound may be muted. Press MUTE or VOLUME ▲▼.• The station may have broadcast difficulties. Try another channel.
Poor sound, picture OK	<ul style="list-style-type: none">• The station may have broadcast difficulties. Try another channel.
Poor picture, sound OK	<ul style="list-style-type: none">• Check the antenna connections.• The station may have broadcast difficulties. Try another channel.• Adjust the PICTURE menu.
Poor reception of broadcast channels	<ul style="list-style-type: none">• The station may have broadcast difficulties. Try another channel.• Check the antenna connections.• If you are using a VCR, make sure the TV/VCR button is set correctly.
Cannot receive above channel 13	<ul style="list-style-type: none">• Make sure TV/CABLE is set to TV mode.
Unable to select a certain channel	<ul style="list-style-type: none">• The channel may be locked out with the channel lock feature, or erased with the add/erase feature.
Multiple images	<ul style="list-style-type: none">• The station may have broadcast difficulties. Try another channel.• Use a highly directional outdoor antenna.
Poor color or no color	<ul style="list-style-type: none">• The station may have broadcast difficulties. Try another channel.• Adjust the TINT and/or COLOR in the PICTURE menu.• If you change the direction of the TV while it is turned on, the picture could suffer from color shading. If so, turn the TV off and allow it to cool down for several hours before turning it on again.
No stereo or SAP sound from a known MTS broadcast	<ul style="list-style-type: none">• Make sure the MTS feature is set properly.
The remote control does not operate	<ul style="list-style-type: none">• Check that the TV/CABLE/VCR switch is properly set.• There may be an obstruction between the remote control and the remote control sensor.• The remote control batteries may be dead. Replace the batteries.
The V-Chip PIN code does not work	<ul style="list-style-type: none">• Change or reset your PIN code.

Cleaning and care

**WARNING: TV sets use high voltage. Do not remove the cabinet back.
Refer all servicing to qualified service technicians.**

To clean the TV screen and cabinet:

1. Unplug the power cord to avoid possible shock hazard.
2. Use a clean cellulose sponge or chamois cloth dampened with a solution of mild detergent and warm water to clean the TV screen and trim. Do not use too much water; liquid spilling into the cabinet can damage the TV.
3. Wipe off excess moisture with a clean dry cloth.
4. Polish the cabinet with a quality furniture polish to maintain the finish and appearance of the cabinet.

Caution:

*Never use strong solvents such as thinner, benzene, or other chemicals on or near the cabinet.
These chemicals can damage the cabinet's finish.*

Specifications

Television system	NTSC standard
Channel coverage	VHF: 2 through 13 UHF: 14 through 69 Cable TV: Mid band (A-8 through A-1, A through 1) Super band (J through W) Hyper band (AA through ZZ, AAA, BBB) Ultra band (65 through 94, 100 through 125)
Power source	120 AC, 60 Hz
Power consumption	104 W
Audio power	5 W + 5 W
Speaker type	2-3/8 x 4-3/4 inches (60 x 120 mm)
Video/Audio terminals	ColorStream™ (component video) INPUT Y: 1V (p-p), 75 ohm C _R (P _R): 0.7 V (p-p), 75 ohm C _B (P _B): 0.7 V (p-p), 75 ohm S-VIDEO INPUT Y-INPUT: 1 V (p-p), 75 ohm, negative sync. C-INPUT: 0.286 V (p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT VIDEO: 1 V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 47 k ohm) VIDEO/AUDIO OUTPUT VIDEO: 1 V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 47 k ohm)
Dimensions	Width: 38-3/16 inches (970 mm) Height: 30-1/16 inches (764 mm) Depth: 25-1/4 inches (641 mm)
Weight	154 lbs (69.9 kg)
Supplied accessories	Remote control with two size "AA" batteries
Optional TV stand	ST-3641

Design and specifications are subject to change without notice.

Limited United States warranty

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii Inc. ("THI") make the following limited warranties. These limited warranties extend to the original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

Limited One (1) Year Warranty

TACP and THI warrant this product and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP and THI will repair or replace a defective part, at their option, with a new or refurbished part, without charge to you. TACP/THI Authorized Service Center personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TACP/THI authorized service center for repair and returned to your home at no cost to you.

Limited Two (2) Year Warranty of Picture Tube

TACP and THI further warrant the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP and THI will repair or replace a defective picture tube at their option, with a new or refurbished picture tube, without charge to you, except that, if a defective picture tube is replaced after one (1) year from the date of the original retail purchase, you pay labor charges involved in the replacement.

Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

How to Obtain Warranty Service

If after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest Toshiba Authorized Service Center, visit our web site at www.toshiba.com/tacp and click "Customer Solutions," or call us toll-free at 1-800-631-3811.
In Hawaii, contact Toshiba Hawaii, Inc., Service, 327 Kamakee Street, Honolulu, HI 96814, (808) 591-9281.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Center. "Authorized TACP/THI service center personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the TV set will be taken to the TACP/THI authorized service center for repair and returned to your home at no cost to you."

**For additional information, visit our web site:
www.toshiba.com/tacp**

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP or THI be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any state or law of the United States or any state thereof, is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages; therefore, the above provisions may not apply to you.



ATTENTION CANADIAN CONSUMERS

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of the bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty.

Products purchased in the U.S.A. and used in Canada are not covered by these warranties.

Products purchased in Canada and used in the U.S.A. are not covered by these warranties.

REV. 03/01

Welcome to
Toshiba

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix

Index

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